

Verb Usage in the Narratives of Six-Year-Old Bilingual Children

Sonja Alantie

Pro Gradu Thesis

English Philology

School of Language, Translation and Literary Studies

University of Tampere

October 2014

Table of contents

1 INTRODUCTION	1
1.1 The purpose of this study and research questions	2
1.2 Hypothesis	4
2 THEORETICAL FRAMEWORK	4
2.1 Definitions and aspects of bilingualism	6
2.1.1. Bilingualism in Finland	9
2.2 How children learn a language	11
2.2.1 Learning how to mean and to narrate	11
2.2.2 Language development in bilingual children	14
2.3 Systemic Functional Linguistics in studying verb use in narrations	19
2.3.1 Metafunctions of language	19
2.3.2 Verbs as processes	20
2.3.3 Types of process	20
2.3.4 Processes in child narratives	24
3 MATERIALS AND METHODS	28
3.1 The informants	28
3.1.1 The children's background information from the questionnaires	29
3.1.2 The parents' observations of their bilingual children	33
3.1.3 Ethics in studying children	34
3.2 The narrative task and collecting the stories	36
3.3 Preparing the data	38
3.4 Analysing the data	39
3.4.1 Principles of analysing and counting the processes	40
3.4.2 Lexical diversity	43
3.4.3 Statistical methods	45
4 RESULTS	45
4.1 Process types and their occurrence in bilingual children's frog-stories	45
4.1.1 Process types by language	45
4.1.2 Process types by gender	48
4.1.3 Process type usage at an individual level	49
4.2 The amount and diversity of verbs in bilingual children's frog-stories	51
4.2.1 The quantity of verbs	51
4.2.2 The lexical diversity of the verbs	54
5 DISCUSSION	58
5.1 Discussion of the main findings	59
5.2 Assessing materials and methods	63
5.2.1 The children and their background information	63

5.2.2 Discussion of the narrative task and the context of narration.....	65
5.2.3 Challenges in data analysis.....	70
5.3 Suggestions for future research	73
6 CLONCUSION	74
REFERENCES:.....	76

APPENDICES

Appendix 1: Tables of process use and an example of data displayed in Excel file

Appendix 2: Transcription marks

Appendix 3: Six-year-old bilingual children's frog-story narrations in English and in Finnish

Appendix 4: Permission form

Appendix 5: Questionnaire for parents

TAMPEREEN YLIOPISTO

Kieli-, käännös- ja kirjallisuustieteiden yksikkö
Englantilainen Filologia

ALANTIE, SONJA: Verb Usage in the Narratives of Six-Year-Old Bilingual Children

Pro gradu –tutkielma, 82 sivua, 5 liitettä
Englantilainen filologia
Lokakuu 2014

Kaksikielisyys on Suomessa yhä yleistynyt ja monimuotoinen ilmiö. Kaksikielisiä lapsia on tutkittu suhteellisen vähän ja niin vanhemmat, opettajat kuin puheterapeutitkin tarvitsevat tietoa kaksikielisten lasten tavanomaisen kielenkehityksen piirteistä. Yhtenä tärkeänä kielenkäyttötaitona kerronta edellyttää hyvin kehittyneitä kognitiivisia, kommunikatiivisia ja sosiaalisia taitoja. Lisäksi lasten kerrontataitojen tiedetään ilmentävän kielelliskulttuuriseen yhteisöön sopeutumista sekä ennustavan sosiaalisten taitojen kehittymistä ja koulumenestystä. Tutkimalla kerrontaa saadaankin kattavaa ja arvokasta tietoa lasten kielellisistä ja kielenkäytön taidoista, esimerkiksi sanastosta. Tässä tutkimuksessa tarkasteltiin kerronnan avulla lähemmin verbejä, jotka ovat oleellisia tekojen, tapahtumien ja asiantilojen ilmaisemiseksi. Verbisanaston niukkuus ja yksipuolisuus saattaa viitata kielellisen kehityksen poikkeavuuteen. Verbisanasto on myös yksi niistä kielen piirteistä, joita tutkimalla voidaan erottaa kaksikielisen lapsen hallitseva kieli.

Tässä tutkielmassa tarkasteltiin 18 kielellisesti tyypillisesti kehittyneen kuusivuotiaan kaksikielisen esikoululaisen verbien käyttöä sarjakuvakerronnassa. Kaikki lapset osasivat vähintään suomea ja englantia. Teoreettisena viitekehysenä käytettiin M.A.K. Hallidayn systeemis-funktionaalista kieliteoriaa. Kertomukset kerättiin äänitteinä englanniksi ja suomeksi. Litteroiduista teksteistä tutkittiin, millaisilla verbiprosesseilla lapset kuvasivat kertomuksen tapahtumia ja kuinka monipuolista verbisanastoa he käyttivät. Kertomuksia tarkasteltiin sekä käytetyn kielen että lapsen sukupuolen perusteella. Lisäksi sukupuolten välisiä eroja tulkittiin tilastollisesti khiin neliötestillä ja kielten välisiä eroja sekä khiin neliötestillä että Wilcoxonin testillä.

Tutkimushenkilöt toteuttivat kertomuksissaan eniten materiaalisia ja vähiten mentaalisia verbiprosesseja ja suurin osa lapsista käytti molemmissa tarinoissaan viittä eri prosessityyppiä. Englanniksi ja suomeksi kerrottujen tarinoiden välillä ei ollut tilastollisesti merkittävää eroa eri verbiprosessityyppien suhteellisessa toteutumisessa tai verbiprosessien lukumäärässä. Kaiken kaikkiaan verbisanasto oli kuitenkin monipuolisempaa suomenkielisissä kuin englanninkielisissä kertomuksissa. Kuusivuotiaana kaksikieliset eivät eronneet verbien käytössä merkittävästi toisistaan sukupuolen perusteella, mutta yksilötasolla oli huomattavaa vaihtelua.

Tutkimuksen lapsijoukko oli otoksena suhteellisen pieni ja taustoiltaan vaihteleva. Tulokset kuvaavat kuitenkin suuntaa-antavasti kuusivuotiaiden kaksikielisten verbien käytön pääpiirteitä sarjakuvakerronnassa. Kielellisesti tyypillisesti kehittyneiden kaksikielisten lasten verbien käyttöä tulisi tutkia suuremmilla otoksilla ja tarkasti kontrolloiduilla ja eri-ikäisillä tutkimusryhmillä useissa eri viestintätilanteissa, jotta verbien käytön kehitystä ja sen yleispiirteitä pystyttäisiin hahmottamaan. Tietoa voisi käyttää apuna kaksikielisten lasten kielellisen kehityksen tukemisessa ja kielellisten häiriöiden tunnistamisessa.

Avainsanat: kaksikielisyys, kielenkehitys, kerrontataidot, systeemis-funktionaalinen kieliteoria, kielen semanttiset metafunktiot, verbiprosessit, verbien käyttö

1 INTRODUCTION

Bilingualism worldwide is more of a norm than an exception, especially in children. Despite the commonness of this multifaceted phenomenon, parents, educators and speech therapist lack detailed information that would help them to differentiate between signs of language impairment and typical bilingual language development. Furthermore, research on bilingualism has typically focused on Romance or Germanic languages and bilingualism connected to Baltic-Finn Finnish has been studied considerably less (Silvén 2010, 142). In order to gain better working tools to support language development in bilingual children in the future, more research on this subject is required.

My approach to this study combines the views and practices of English philology and logopedics. In this study, I will analyse the verb usage of 18 six-year-old bilingual preschool children who know at least Finnish and English by using a cartoon–strip narrative task, which is an established method in language assessment in logopedics (Korpijaakko-Huuhka 2003, 33, 198). The cartoon strip used in this study is *Frog, where are you?* by Mercer Mayer (1969) generally known as the frog-story (cf. chapters 2.3.4 and 3.2). Narrations are a rich source of information and an important subject of study. They are perceived to be a primal linguistic vehicle shaping the way we interact with each other and the way we experience the surrounding world, our own past and even our identity (Bruner 2010, 45). Indeed, narrations such as stories are always produced from personal experience in a cultural context (Bruner 2010, 46).

Narratives are verbal descriptions of imaginative or real life series of events (Suvanto & Mäkinen 2011, 63). Minimally a narrative is a sequence of two temporally ordered clauses (Labov 1976, 360). As we know, language and how we use it, is an essential part of culture. How children narrate therefore also tells about their socialisation in the prevailing socio-cultural environment (Nelson 1996, 183–185; Verhoeven 2010, 452).

The narrative skills of children should be carefully observed because they have been identified as playing an important role in predicting literary and social skills and academic

achievement in both monolingual and bilingual children (Lyytinen 2004, 59 review; Uccelli & Páez 2007, 225, 226 review). The ability to narrate is, in fact, indicative of overall cognitive and linguistic knowledge and communicative and pragmatic competence; therefore, narratives can be used to measure language skills in both typically developed or aged populations as well as clinical populations (Botting 2002, 1–2; Berman & Slobin 1994a, 15; Strömquist & Verhoeven 2010a, 8–9). Verbs, again, are perceived as the most important word class of a language (Aitchison 2008, 113). Different types of verbs entail meanings that demonstrate a full range of human experience (Halliday & Matthiessen 2004, 170; Shore 2012, 164). Narratives are a valid means for studying verbs, because verbs and their constituent companions serve a focal function in creating the world of the narrative and its events (Korpijaakko-Huuhka 2011a, 215–216, 222).

Studying bilingual children's verb usage in narratives sheds light on the bilingual children's typical language development. Furthermore, studying how bilingual children with typical language development use verbs in certain discourses such as narratives help us to discover norms, which in turn present us with means to discover how, for example, language impairments affect narration and verb usage.

1.1 The purpose of this study and research questions

There are few studies of verb usage in logopedics among Finnish speaking population and the verb usage of bilingual children who speak Finnish and English has not been studied previously.

Information about typically developed bilingual children's verb usage is needed in order for us to begin to perceive the norms in bilingual language development, to better identify the challenges of acquiring two or more languages and finally to identify what constitutes as atypical language use in bilingual children.

In this study, I will analyse the verb usage of 18 six-year-old Finnish and English speaking bilingual preschool children in picture book cartoon strip narrations. Narratives are a valid

means to study the bilingual children's verb choices as narratives reflect cognitive, social and language skills and because verbs play an integral role in them (Botting 2002, 1–2; Berman & Slobin 1994a, 15; Korpijaakko-Huuhka 2011a, 215–216, 222; Strömquist & Verhoeven 2010a, 8–9.). Verbs are important indicators of language skills also in the sense that the scarcity or one-sidedness of the verb lexicon may signify problems in language development (Korpijaakko-Huuhka 2011a, 218–219 review). According to literature, one of the indicators of a bilingual person's dominant language is the larger number of different verbs in a speech extract (Genesee, Paradis & Crago 2004, 80). Thus, I will observe what verb processes the children deploy and in what quantities as they produce a story both in English and in Finnish. Additionally, I will analyse the diversity of the children's verb lexicons. Whether there are differences between the children's English and Finnish narrations and between the two genders will also be examined. The perspective of gender is included because men and women as well as already boys and girls are known to use language differently and also because speech and language disorders, such as SLI¹, are known to occur more often in boys than girls (e.g. Ervast & Leppänen 2010, 212; Swann 1992, 14–21). Differences between the English and Finnish narrations and between the two genders will be examined also statistically with chi-squared test and Wilcoxon's matched-pairs signed rank test.

The research questions are:

- 1) What verb processes do six-year-old bilingual children with typical language development use in depicting events in the stories they tell in English and in Finnish?
- 2) How versatile verb lexicons do the children produce in their narratives?
- 3) Are there differences in verb usage between the children's English and Finnish narrations and between the two genders?

¹ Specific language impairment (SLI) is a language disorder that delays the mastery of language skills in children who have no hearing loss, low nonverbal intelligence nor neurological damage (Ahonen & Lyytinen 2004, 81–84 review)

1.2 Hypothesis

Typically stories should contain at least a some kind of a beginning, a middle and an end, and generally semantically different verbs categories (process types) are used in different episodes of the story (cf. chapter 2.3.4). I will not study the occurrence of these story phases in the bilingual children's narratives, but the information about the concurrence of particular process types and thematic episodes of the story, and additionally the information about how children's narratives develop implicate that a good variety of different process types can be expected to appear in the texts of six-year-old bilingual children. My hypothesis is that the majority of the children will use different semantic verb categories in different proportions depending on the language they narrate in, because the majority of the bilingual children are reported to have begun to acquire one language earlier than the other and the appearance of different semantic verb categories in narratives is known to increase and evolve with age (cf. 3.1.1). I also presume the lexical diversity of the English and Finnish narratives to differ from each other, as the majority of the children are reported to have a dominant language. Further, I would expect slight differences between the overall performances of the two genders and fair variation between individuals.

2 THEORETICAL FRAMEWORK

The theoretical framework of this thesis relies largely on Systemic Functional Linguistics (henceforth SFL). SFL is a theory developed by M.A.K. Halliday, his students and fellow researchers starting from the 1960's (Kress & Van Leeuwen 2006, 1; Shore 2012, 134). It derives from the European functional tradition and follows largely the system-structure theory of the British linguist J. R. Firth incorporating also principles from the Danish structural linguist Hjelmslev and concepts from literary critics and linguist of the Prague School (Halliday 1985, xxvi–xxvii; Shore 2012, 132–134). I will also refer to other theorists and researchers that have based their works on SFL. One of them, Susanna Shore (1992), has conducted a functional study of Finnish language,

and further on Finnish logopedics researchers, for example Anna-Maija Korpijaakko-Huuhka, have capitalised on SFL-theory and Shore's aspects of it in studying individuals and populations of different ages.

SFL perceives language as a multidimensional totality constructing and mirroring a person's perception of reality and the social processes a person engages in (Halliday & Matthiessen 2004, 24–25; Kress & Van Leeuwen 2006, 1). Language is a sign based semiotic system firmly rooted in social interaction (Halliday & Matthiessen 2004, 29–31). Words are devoid of absolute semantic value; they only gain their meaning based on their function in a specific clausal syntactic structure, and in given social situation and cultural context (Halliday & Matthiessen 2004, 29; Kress & Van Leeuwen 2006, 3; Shore, 1992, 19). The core function of language is to convey, remodel and create cultural meanings and the ways that enable us to discuss about the world we live in (Halliday 1987, 139, 213–214; Shore 1992, 20–21).

As a methodological resource SFL provides researchers with working tools that enable the evaluation of a person's abilities considering different levels of linguistic features as well as the fulfilment of different rhetoric functions of language in everyday situations (Armstrong 1995, 87; Armstrong 2005, 14–143). It enables speech therapist and other clinicians to perceive the ways in which a person is capable of conveying meaning rather than identify only the undeveloped or impaired communicative skills (Armstrong 2001, 143; Armstrong 2005, 142; Korpijaakko-Huuhka 2012, 601). Overall, SFL can be applied to examine the large questions that have inspired this study as well, namely: the nature and function of language; how a child develops language; how language varies according to the user and according to the function it is being used; and the many aspects of the role of language in the community and the individual — in bilingual individuals for one (Halliday 1985, xxix–xxx).

The framework of this study also relies on theories of child language development and bilingualism. I will begin the theory chapter by discussing bilingualism in general and its definition

in literature and move on to child language development and to the systemic functional views of verbs and their function and occurrence in child narratives. I will also introduce some relevant studies on narratives and on verb usage.

2.1 Definitions and aspects of bilingualism

Bilingualism is a multifaceted phenomenon and the semantic definitions of the term as well as the terminology vary widely. I will discuss bilingualism here strictly as an individual characteristic disregarding its socio-political aspects. I will restrict the definition of bilingualism to refer only to languages with different names without addressing the problem of what constitutes as a separate linguistic system in a sense of dialect and diglossia. Moreover, in this study, the focus will solely be on spoken languages excluding other communicational modalities such as sign language (cf. Steinberg, Nagata & Aline 2001, 219).

Since the beginning of twentieth century the concept of bilingualism has become more fine-grained as scholars have introduced new terminology to categorise types of bilingualism more precisely (Mackey 2004, 26). For example, Li Wei (2004, 6–7) has identified 37 different terms describing a variety of bilinguals in English literature of bilingualism. As an umbrella term, bilingualism portrays someone who has command of two languages. In Europe, the terms means also people who interchangeably use up to four or more languages and have varying degrees of proficiency in them (Mackey 2004, 27; Tabouret-Keller 2013, 745; Wei 2004, 7). Another commonly used term for knowledge of multiple languages is *multilingualism*. This term is also applied to refer to alternating use of two or more languages in the same text or spoken discourse (cf. University of Tampere 2013). To maintain clarity, I will use the term bilingualism in this study to refer to individuals who know two or more languages.

If we consider the question of origin, as in when bilingualism begins, the strictest definition, so to speak, is *simultaneous bilingualism*, meaning that the person has begun to acquire

the two languages from the onset of one's language development (Wei 2004, 6–7). The loosest labelling is *successive bilingualism* referring to a person whose second language is acquired at some stage after the first language has begun to develop (*ibid.*). A theoretical distinction between Bilingual First Language Acquisition (BFLA) and Bilingual Second Language Acquisition (BSLA) is hence often relevant as is the labelling of the languages according to their order of acquisition, typically as follows: L1, L2, L3 and so on (cf. Genesee 2004, 327; de Houwer 2004, 223; Verhoeven 2010, 435). There is a range of *competence levels* under the term bilingualism from someone with insufficient knowledge of one of the languages, for example a person knowing only odd words or phrases in a second language, to someone with near native control over more than one language (Wei 2004, 7). As a term *language competence* includes both the grammatical-linguistic competence and the sociolinguistic competence which in reality are largely intertwined. The former means the knowledge of grammatical rules and the latter denotes pragmatic skills and mastery of social norms (Skutnabb-Kangas 1983, 87–88).

Besides origin and competence, bilingualism can be described based on the *function* of the languages and by *attitudes* towards the languages a person knows (Skutnabb-Kangas 1983, 81–89, for a study on attitudes and language use cf. e.g. Gardner-Chloros & McEntee-Atalianis 2005). On one hand, attitude reflects the speakers' own views of how the speakers identify themselves with the languages or the language communities or cultures (Skutnabb-Kangas 1983, 88). Additionally, attitude entails how well or how effortlessly the speakers feel they are able to use the languages (*ibid.*). On the other hand, attitude also includes the aspect of how the community a person lives amongst reacts to the languages a person uses or how good they assess the speaker's language skills to be (Skutnabb-Kangas 1983, 81, 88). With function again, it is a question of what the language is or can be used for by the person and also what sort of a role the language plays in the person's overall behaviour (Mackey 2004, 27–28; Skutnabb-Kangas 1983, 81).

As a worldwide phenomenon bilingualism in children can further be observed from the perspective of the pressure, or on the other hand, the prerequisites to acquire two or more languages (Skutnabb-Kangas 1983, 75–80). Skutnabb-Kangas differentiates four groups with different premises and prospects to develop into bilingual individuals. *Elite bilinguals* for whom bilingualism is completely voluntary, children from *linguistic majorities* learning a minority language in former colonised countries, children from *bilingual families* and children from *linguistic minorities* learning the language of the majority population face different levels of internal and external pressures to achieve a command of multiple languages (*ibid.*). If children fail to become bilingual, the severity of personal and social consequences depends likewise upon the group they belong to (*ibid.*).

Types of child bilingualism can also be separated by the manner of acquisition, more specifically, by whether children acquire two or more languages as the natural means of everyday communication without formal teaching or whether they learn their second language at school through formal teaching with limited opportunities to use the language elsewhere (Skutnabb-Kangas 1983, 95). These two types are undoubtedly simplifications and as such they entail numerous individual circumstantial variations of exactly how, where, when and with whom the languages are acquired and learned. A more extensive description of the crucial factors underlying the children's bilingualism is presented for example by Ellen Bialystok (cf. 2001, 1–20).

The choice of an appropriate definition of bilingualism should always rest upon the exact purpose it is used for (Skutnabb-Kangas 1983, 89). However, throughout this study, my own basic definition of bilingualism comes from Hassinen (2002, 405) and it describes a person who is able to use two or more languages to speak, understand speech and to think and later in life also to read and to write and switch languages with ease. Perfect knowledge of a language or equal knowledge of the languages is not expected (*ibid.*). Especially children have not reached the full potential of their language skills and in bilingual children “any language is partial at best”

(Bialystok 2001, 1). Indeed, if we think of competence and function, and disregard the notion of origin, it is possible for a person's mother tongue, the language a person knows best, even to change over time (Skutnabb-Kangas 1983, 12). In my opinion, if we want to define child bilingualism, it would also seem fitting to highlight the child's willingness and continuously developing skills to function and participate age-appropriately in each of the language communities although children often have little power over the discourse opportunities they are given and the environmental factors affecting their language acquisition. To conclude from this chapter, for an individual especially for a child, bilingualism is not a static attribute, but a dynamic ensemble of language skills and psychosocial state of affairs, which develops in a context of external demands and opportunities as well as in the context of internal motivators (cf. also Skutnabb-Kangas 1983, 90).

The bilingual children chosen for this study were not an entirely uniform group, as will be exemplified in chapter 3.1.1. They came from different type of families and backgrounds and although all of them spoke two languages, some of them know even more. Some of the factors presented earlier in this chapter undoubtedly manifested themselves in somewhat different ways in these children. What they all had in common at the moment, however, was that they were preschoolers living in Finland with a prospect of entering school in Finland and growing up as members of Finnish society. This is representative of at least one part of the scope of bilingualism that educators as well as speech therapists today may well encounter.

2.1.1. Bilingualism in Finland

In Finland bilingualism has been a subject of discussion for long because of the political status of Swedish language and the existence of Swedish speaking minority population. Finland is constitutionally a bilingual country with Finnish and Swedish as its official languages. At the end of 2013 Swedish was spoken as a mother tongue by 5.30 per cent of the whole population (Statistics Finland 2014). Also Lappish, spoken by 0.04 per cent of the population by the end of 2013, has an

official language status in Finland (*ibid.*). As a part of Europe and the European Union, Finland has developed into a multicultural country. Since the 1980s immigration has been on the increase and during the past couple of years already 25 000–29 000 persons a year have immigrated into Finland (Väestöliitto 2014). At the end of 2013 the population of Finland had grown by 24 596 persons within the preceding twelve months, and 90 per cent of the new population had a mother tongue other than one of Finland's official languages (Statistics Finland 2014). Multilingual situations develop and languages come in contact continuously because of immigration and migration waves, existing regional language minorities and political settings (Tabouret- Keller 2013, 765). Moreover, children are affected by parents of different native tongues, extended families, temporary residence in another country, educational policies, and possibilities in early education, such as generalisation of language immersion programmes (Bialystok 2001, 6–7; Tabouret- Keller 2013, 765).

Bilingualism, therefore, is a current matter that deserves increasing attention from parents, educators, speech therapists, health practitioners and researchers alike.

This study focuses on bilingual children who know at least Finnish and English. The latter can be described as a *world language* or *lingua franca*, which has a global role as an international medium of communication (Pahta 2004, 8). Also in Finland English is an appreciated and the most studied and used foreign language (Leppänen, Pitkänen-Huhta, Nikula, Kytölä, Törmäkangas et. al 2009, 73–77, 89–90, 111–115). English and Finnish languages represent different cultures and naturally differ in nature as having distinct phonetic systems, vocabularies and grammars. English belongs to the Indo-European language family, whereas Finnish is a member of the Uralic language family (Häkkinen 2001, 42–43). Research on bilingualism has typically focused on Romance or Germanic languages like English, but Finnish bilingual speakers have been studied relatively little and more research is required (Silvén 2010, 142).

2.2 How children learn a language

In this chapter, I will discuss how children learn their mother tongue and the skill of narrating that is an integral part of human interaction and important in organising information. I will also review literature on how bilingualism affects the language development in general and what differentiates the bilingual language acquisition from the monolingual language acquisition.

2.2.1 Learning how to mean and to narrate

The acquisition of a mother tongue or first language is not the same as merely learning words or clauses; in Halliday's words the acquisition of one's first language is learning how to mean (Halliday 1975, 5–6). A child will learn to use language with the growing understanding of what a person can do with language, and this can only happen in interaction with other human beings as the brain matures (*ibid.*, 33; Leiwo 1986, 72). SFL presents seven early developmental functions of language, *instrumental, regulatory, interactional, personal, heuristic, imaginative* and *informative*, which involve using language as a means of expressing material needs, influencing and controlling other people, building and maintaining social rapport, developing and expressing individuality and identity, seeking information, organising the idea of reality, imagining and giving information (Halliday 1975, 18–21; Leiwo 1986, 70–71). At first children realise functions of language with sounds and prosody and later with lexicon and grammar (Halliday 1975, 18–32; for stages of typical language acquisition in more language specific detail in English cf. e.g. Steinberg, Nagata & Aline 2001, 3–49 and in Finnish cf. e.g. Lyytinen 2004, 48–66). These developmental functions of language are presumed to be universals of human culture (Halliday 1975, 33).

To learn their mother tongue pragmatically, semantically and syntactically children should have the opportunity to engage in different kinds of discourses, that is, to use the language for all its functions (Leiwo 1986, 70–72). Successful language acquisition also requires beneficial biological, psychological and environmental conditions (Leiwo 1986, 53). Similarly, to learn

another language well the opportunities to practise exchange of meaning between the self and the others should be extensive and the communal attitudes towards the other language and bilingualism should be favourable (Leiwo 1986, 153; Silvén 2010, 144–145). However, children who are learning two or more languages experience more variability in their language input than monolingual peers, and on average, bilingual children receive less input in each of their languages than monolingual children (Paradis 2010, 652). The input is also often unequally balanced between the languages and may be restricted to certain social rapports, contexts, discourse types and dialects (*ibid.*). These qualitative and quantitative variations of exposure are naturally sensitive to changes in family structure and close social community, child-care and schooling arrangements and residential environment (*ibid.*).

Cognitive development and social interaction go hand in hand in language acquisition (Halliday 1975, 139–140). As a good representative of cognitive, linguistic and social development, narration is an important skill in organising thought constructions, acquiring literacy and relating to peers and adults (Bliss & McCabe 2008, 162; Nelson 1996, 190; cf. also Renvall, Nickels & Davidson 2013, 657). Children are innately interested in human activities and interaction and even narrative skills start developing as early as in the pre-linguistic phase of language development (Bruner 1983, 70–88; Bruner 1990, 70–74; Suvanto 2012, 33). From very early on children have the ability to notice sequential orders in the events they have observed and distinguish unexpected events from regular ones (Bruner 1990, 78–80). The informative function of the language is the last one to start to develop, and this becomes noticeable also in the development of narrative skills (Halliday 1975, 20–21, Roininen 2014, 6). During the second year of children's lives actual narrative-like communication begins to emerge in interaction with the caregivers as they complete the children's single notions of personal and shared experiences of things or events into narratives (Bamberg 1987, 20–21 review; Lyytinen 2004, 57–58 review). At the age of three the children start narrating more independently and spontaneously with increasing length and detail, although their

narrations are not yet structurally well organised (cf. Berman & Slobin 1994b, 58–64; Lyytinen 2004, 56–59 review).

The qualitative development of narrative skills proceeds the fastest when children are four to five years old (Berman & Slobin 1994, 66–67; Suvanto 2012, 35; Verhoeven 2010, 434). It is argued to be around this age that the children begin to distinguish stories from other narrative genres for example descriptions, although they have not yet established the episodic form in their own stories (Shapiro & Hudson 1991, 961 review). A notable difference to the three-year olds, is the emergence of evaluative language indicating the development of theory of mind, which refers to the children's understanding of their own and others' mental states (Berman & Slobin 1994, 73; Nelson 1996, 296). In narrations this means that the children begin to perceive and note feelings and other frames of mind (Berman & Slobin 1994, 73).

It is usually not until the age of five that children manage to express events as sequentially organized narratives, and often at the age of six the story concepts have developed to be elaborate with more structural, linguistic and semantic complexity (Berman & Slobin 1994, 67; Liles 1993, 875 review; Shapiro & Hudson 1991, 960, 968). In their narrations, six-year-olds use the past tense, know how to advance the plot and are able to connect knowledge from their different experiences flexibly (Shapiro & Hudson 1991, 969–971). The coherence of the stories has evolved as the children now quite easily apply different conjunctions and ways of referencing, which means that they can identify things appropriately for example by using pronouns suitably to refer to nouns (Bliss & McCabe 2008, 164; Shapiro & Hudson 1991, 970; cf. also Korpijaakko-Huuhka 2011a, 220–221). The stories are already often organised around a problem and they contain consequences of the complicating actions (Liles 1993, 871, 875 review). Six-year-olds also depict both the story setting and the motives of the characters and usually have an understanding of how precise information the listener requires in order to comprehend their narrative (Korpijaakko-Huuhka 2011a, 219 review; Shapiro & Hudson 1991, 969). After this, narrative skills continue to develop

and advance for several years up to adulthood (Bruner 1990, 72–73). Even the narrations of nine-year-olds are still far from the mature level (Berman & Slobin 1994b, 75). In addition to the informative function, narrating requires the mastery of personal, heuristic and imaginative functions of language (Leiwo 1986, 71–72). All these functions become available together with the acquisition of the semiotic system of a language and essentially, it is the acquisition of core grammar and the elements of simple-clause structure that are the key factors in achieving the ability to produce a narrative construction (Bruner 1990, 77; Verhoeven 2010, 438).

Even if imaginative, stories are not context free, but always located in a cultural setting (Bruner 2010, 46). In narrations the cultural experiences are filtered into verbalised events through the choice of perspective and through the set of options provided by the particular language and inevitably by the individual's knowledge of the particular language (Berman & Slobin 1994, 9). Therefore, how children narrate also mirrors their socialisation pattern in the prevailing socio-cultural and linguistic environment (Nelson 1996, 183–185; Verhoeven 2010, 452).

2.2.2 Language development in bilingual children

Contemporary research on the effects bilingualism has on a child's development has shown a variety of outcomes demonstrating both monolingual and bilingual advantages, and sometimes no difference between the two (Genesee, Paradis & Crago 2004, 56 review). Considering the different reasons children become bilingual and the different circumstances under which this happens, the inconsistency of results is unsurprising (*ibid.*). However, as Genesee, Paradis and Crago (2004, 52) conclude, “there is no significant theoretical reason to believe that learning, knowing or using two languages should jeopardize children's development”. Even when neurolinguistics are concerned, research on the way linguistic skills are organised in the brain of bilingual people suggest no significant differences compared to monolingual speakers (Lehtonen 2010, 152 review).

Bilingual language development is often separated into either *simultaneous* or *successive* language acquisition. Simultaneous bilingual refers to children who acquire two languages regularly, from birth to about three years of age and continue to be addressed in those spoken languages (de Houwer 2004, 222; Genesee, Paradis and Crago 2004, 23). So far researchers have found more similarities than differences between the language development of monolinguals and simultaneous bilinguals (de Houwer 2004, 243–244 review). Simultaneous bilingual acquisition proceeds through the same basic developmental sequences as monolingual acquisition and there is no systematic proof that simultaneous bilinguals would even be slower than their monolingual counterparts to pass through the critical stages from learning the sound system to acquiring a native-like grammatical competence (Genesee, Paradis & Crago 2004, 72–73, 77 review; Meisel 2001, 12 review). Despite of this, the two languages seldom develop in tandem, and one of the languages commonly becomes somewhat dominant in the sense of greater proficiency (Dixon, Wu & Daraghmeh 2012, 31; Genesee, Paradis & Crago 2004, 79 review, 100). Especially, if one of the languages has a lower societal status, it seems to be one the factors which makes that particular language harder to maintain (Dixon, Wu & Daraghmeh 2012, 31; cf. also Gardner-Chloros 2005, 53 review).

Certain characteristics of bilingual language development do, however, differentiate them from their monolingual peers. As a process of developing an adult-like language system all children make certain kind of mistakes, that are typical to particular stages of language development (e.g. “Me no find frog.” instead of “I can’t find the frog.”) (Genesee, Paradis & Crago 2004, 75–76). In simultaneous bilinguals some of the mistake structures can appear to be influenced in their form, frequency or continuance of use by the characteristics of the other language (*ibid.*). This is referred to as *crosslinguistic influence*, *language transfer* or *interference* (*ibid.*; Weinreich 1963, 1, cf. also 7–70). *Mixing* is another typical phenomenon of early bilingual language development (Meisel 2004, 345; Menyuk & Brisk 2005, 15). It occurs most frequently on a lexical level and

rarely on the phonological level (e.g. from data: *and den he found a (.) ah (.) peura* ‘deer’) (Meisel 2004, 345). Mixing the two languages is thought to take place because of a strong domination of one of the languages, because some words are unknown in both the languages or because of the parents’ example of freely mixing and switching languages (Meisel 2004, 345; Menyuk & Brisk 2005, 15). Yet another prime characteristic of bilingualism is language *alternation* also known as *code-switching*, where the speaker switches from one language to the other within a sentence or between sentences (Menyuk & Brisk 2005, 15). This occurs throughout the life of the bilingual being often first a relief strategy and with increasing language proficiency developing further into a communicative tool of pragmatic competence (Meisel 2004, 345; Menyuk & Brisk 2005, 15).

Successive bilingualism or second language acquisition process is different from learning the mother tongue or from learning two languages simultaneously, and it most often occurs in situations outside the home (Yazici, İltar & Glover 2010, 260; Harding & Riley 1994, 71–73). A child may start learning a second language at any age, but regardless of age there are typical stages that children go through when acquiring their L2 (Genesee, Paradis & Craco 2004, 119–120 review). One of these stages is a period between the time the learner begins to use the new language productively until the point the learner achieves native-like language competence (Genesee, Paradis & Craco 2004, 121). During this period the children use language in a rule-governed way, which is neither quite like the learner’s first language nor does it yet have the proper characteristics of the target language system (Genesee, Paradis & Craco 2004, 121). At this stage, the children’s language entails for example transfer errors (Genesee, Paradis & Craco 2004, 121). I will not examine language transfer or the earlier mentioned mixing or code-switching in this study, but it is useful to understand what they are and acknowledge that they may occur in the narrations of bilingual children and, therefore, possibly affect analysing the verbs and their context.

In successive bilingualism, a good proficiency in the mother tongue is important for successful second language acquisition. As children learn their mother tongue they develop

language skills as well as intellectual capacities that increase their second language learning potential — the skills and knowledge are known to transfer across the first language to the one being acquired (Cummins 2001, 17; Yazici, Ílter & Glover 2010, 261, 266; cf. also Vygotsky 1962, 109–110). Mother tongue should be promoted in the education of bilingual children, because it benefits the children's abilities in all the languages they know (Cummins 2001, 17–18).

Essentially, the difference between monolingual and bilingual children in is the bilingual's task of coping with two sets of linguistic and pragmatic operating principles (Verhoeven 2010, 436). Language is an integral part of culture and cultures like the languages may be relatively similar or different from each other (Genesee, Paradis & Crago 2004, 27). Bilingual children not only have to learn the languages, but also how to use each of them in a culturally appropriate way (*ibid.*).

Cultural variation appears strongly in conversational interaction and storytelling (cf. chapter 2.3) (Menyuk & Brisk 2005, 49–50, cf. also Bliss & McCabe 2008, 164–169 review). In narrations the structures of stories vary; in some cultures the narrators develop a theme and stick to that theme whereas in others it is typical to provide background information which leads to diversions from the original theme (Menyuk & Brisk 2005, 50). How much the listeners tend to participate in the act of storytelling also varies culturally as well as the typical themes of the stories (*ibid.*). If this is not taken into consideration by the listeners or participants, different styles may lead to lack of comprehension (Menyuk & brisk 2005, 49). The overall narrative development of bilingual children and the monolingual children is much alike (Verhoeven 2010, 452 review). However, if bilingual children grow up in a L2-submersion environment where only their education is given in the second language, their developmental level of narrative skills often lags behind the level of their monolingual peers in their second language (Verhoeven 2010, 452–453 review).

Cultural background itself does not define the child's language development. Barac and Bialystok (2012) investigated the generality of the bilingual effects on development by testing

verbal abilities and nonverbal cognitive control abilities in different child groups (English monolinguals, Chinese-, French- and Spanish -English bilinguals). The results of the study suggest that cultural background does not contribute to the performance of nonverbal abilities more than bilingualism itself and that there seems to be a bilingual advantage in metalinguistic functioning (*ibid*, 419–420). In verbal performance, it is the similarity between the children's two languages and language of schooling that contribute to their performance (Barac & Bialystok 2012, 420).

One problem that arises from cultural differences, the imbalance of the children's language input and the consequent unevenness of their linguistic skills is the difficulty of differentiating between the signs of language impairment and unimpaired bilingual language development. Educators may not have appropriate developmental expectation of children from bilingual backgrounds (Bedore & Peña 2008, 1). Thus, the children are sometimes either misidentified with having language impairments or identifying their difficulties is delayed as the educators wait for the children to reach the language skill level of their monolingual age-mates, but are hampered with a poor understanding of how long it should take (*ibid.*).

Normative data about the detailed trajectory of simultaneous and early sequential bilingual language development is limited and speech therapists lack valid language assessment tools for identifying clinical markers in bilingual children (Bedore & Peña 2008, 1–2; de Houwer 2004, review, 242). In Finland, only a few assessment methods have been developed (Korpilahti 2010, 150). At the moment the basis for the diagnostic decision making is the knowledge of typical monolingual language acquisition (Bedore & Peña 2008, 2; Korpilahti 2010, 149). Referring to their own research of English-French bilinguals with specific language impairment Genesee, Paradis and Crago (2004, 83–84 review) propose that simultaneous bilingual children with specific language impairment experience difficulties in both languages and the deficit patterns they show are the same as in monolingual children with specific language impairment.

2.3 Systemic Functional Linguistics in studying verb use in narrations

SFL is deeply oriented to the descriptions of how language makes meaning in context and language usage is studied as *choices* made by the speaker (Halliday 1985, xxvii). The choices are always inextricably linked with and depend on the particular situation (*ibid.*; Eggins 2004, 8). In this study, SFL works as a methodical tool for examining how the children use verbs, or choose words so to speak, to convey meanings in a context of a given task, which is to tell a story. The cardinal ideas and terms of SFL in relation to this study will be discussed in the following chapters.

2.3.1 Metafunctions of language

Halliday introduces three types of *metafunctions* of language, which correspond to the basic social-linguistic needs of a human being (Halliday & Matthiessen 2004, 29, 58–62). Firstly, language has an *ideational* function of representing the outer reality surrounding us as well as the inner world of our private minds (Halliday & Matthiessen 2004, 29). Halliday divides this metafunction further into *experiential* and *logical* functions (*ibid.*). The first refers to meanings used to represent the world whereas the latter refers to the way the elements used to describe the world are connected to each other in a clause (Halliday & Matthiessen 2004, 309–310). Secondly, language has an *interpersonal* meaning in creating social interaction and relationships; producing identities and roles; and conveying emotions, attitudes and experiences to other people (Halliday & Matthiessen 2004, 29; Halliday 1987, 15). The third, *textual*, metafunction refers to our need to organise our linguistic production into a coherent and cohesive entity compatible with its environment of use (Halliday 1987, 48). The grammar and lexicon of a language enable the generation of all the previously mentioned metafunctions (Eggins 2004, 17–20).

2.3.2 Verbs as processes

When I study the children's stories and the verbs in them, the focus will be on the *experiential metafunction* of language, that is, on how the children's word choices represent their world view, perspectives of reality and their world of imagination in the two languages (Shore 2012, 164; Shore 1992, 36–37, 210). Although based on meaning, SFL theory is an interpretation of linguistic forms (Halliday 1985, xx; Shore 1996, 239). The experiential meaning the speakers convey in the texts are accordingly detectable in the clause types they produce (Shore 2012, 146, 166). Halliday perceives the experiential metafunction as clauses or *processes* consisting potentially of three components: 1) the core of the process realised by a predicate verb also called a *process*, 2) *participants* realised mainly by nouns and 3) *circumstances* realised by adverbial groups or prepositional phrases (Halliday & Matthiessen 2004, 175; Eggins 2004, 222; Shore 1992, 210–211). I will not study the participants or circumstances, but observing them is essential to understanding the context that affects the semantics of a verb.

As I use the term *process* in this study, I mean the semantic ensemble composed of the core verb and its constituent companions. Whereas, when I discuss the core verb itself, I will use merely the word *verb* or *process verb*. Halliday refers to any instance of language — spoken, written or any other medium of expression — that has some function and meaning in a context of use as *text* (Halliday & Hasan 1990, 10). Throughout this study, I will also use the term in the same sense and refer to the child narrations as texts.

2.3.3 Types of process

The onset of the acquisition of verbs and the development of the informative function of language are notable steps towards an adult like language (Halliday 1975, 21; Tomasello 1992, 7–24). Verbs are perceived to be the most important lexical category of a language (Aitchison 2008, 113). They are used by the speaker to express existence, state of affairs, events, situations, relations between

things as well as someone's actions, thoughts and emotions (Korpiaakko-Huuhka 2003, 47; Shore 2012, 164–166). In grammatical clauses, verbs are indivisibly linked with the syntactic structure of the rest of the clause and they are argued to be the lexical items chosen early by the speaker to establish a framework for the rest of the sentence (Aitchison 2008, 113,114). Hence, they guide the overall meaning of the sentence. Considering narratives, verbs and their constituent companions serve a focal function in creating the world of the narrative and its events (Korpiaakko-Huuhka 2011a, 215–216, 222).

Halliday distinguishes altogether six major types of verb process which present a way to decipher a complete range of human experience (Halliday & Matthiessen 2004, 170; Shore 2012, 164). There are three main types of process, *material*, *mental* and *relational* and (Halliday & Matthiessen 2004, 171). The three further types, *behavioural*, *verbal* and *existential* express meanings that are semantically located in between the three main types (*ibid.*). The example clauses given in this chapter and in the whole study are mostly from the narrations collected for this study, but some of them are merely invented for the purpose by me.

Analysing the processes into type categories is not straightforward; semantic regions of the process types shade into each other (Halliday & Matthiessen 2004, 172). Although, there are prototypical processes, the categorisation of a particular process depends deeply on the semantics of the surrounding context; both the sentence in question and the entire text are to be considered when analysing the meaning of a single process verb (Halliday & Matthiessen 2004, 171–173; Shore 1992, 213; Shore 1996, 242). As there is no unambiguous one-to-one correspondence between form and meaning, one verb may take various forms of process types (e.g. the dog ran around the field -> MAT; those trees run round the whole field -> REL) (Halliday 1985, xx; Shore 1996, 239).

Material processes describe doing and happening (Halliday & Matthiessen 2004, 170; Shore 1992, 256–257). They construe some kind of concrete material or physical change, tangible action or transition (e.g. *go*, *come*, *leave*, *run*, *fall*, *climb* and *lift*) (*ibid.*). Material clauses are either

transitive or intransitive (Halliday & Matthiessen 2004, 180). Halliday speaks of *doing* when a verb in the process is transitive taking a direct object (e.g. *he drops the boy and the dog into water*) and of *happening* contrastively when a verb cannot take an object (e.g. *dey fell in+de water*) (*ibid.*).

While material clauses belong to a sphere of outer experience, **mental clauses** illustrate the inner experience and activity such as cognitive behaviour (e.g. *think, know, remember*), emotion or feeling (e.g. *love, fear*) and perception (e.g. *hear, see, notice*) (Eggins 2004, 225–232; Korpiaakko-Huuhka 2003, 50). A mental clause entails the involvement of a conscious human or a humanised participant (Eggins 2004, 227). Therefore, in fairy tale narratives clauses, with animal participants can also in principal be interpreted as mental (e.g. *an' the dog did want to eat*).

Relational processes indicate abstract relationships between things as they classify and identify (Eggins 2004, 237; Halliday & Matthiessen 2004, 170, 210). They realise expressions of characterisation, ownership or possession, and temporal and spatial location typically with the verb *be* (Korpiaakko-Huuhka 2003, 51). Subtypes of relational clauses are either *intensive* or *circumstantial* and can be further distinguished into *identifying* or *attributive* (cf. Halliday & Matthiessen 2004, 210–248; Shore 1992, 214–256). Circumstantial processes may also be divided into those illustrating *location* in space or time and into those denoting *possession* (Shore 1992, 214–256). Some examples of relational clauses in the children's texts are: *it was the boy's only jar* *an' de boy was very angry*; *and then (.) they were outside*; *ja sitten kun+oli aamu* 'and when it was morning'.

To mention a few even more specialised subtypes of relational clauses, there is a set of intensive relational sensory clauses, where the verbs refer to sense perception or impression, for example *looks, tastes, smells, sounds, feels* and *seems* in English and their semantic equivalents in Finnish *näyttää, maistua, haista, kuulostaa, tuntua* and *vaikuttaa* (Shore 1996, 246). An example of a sensory clause in a Finnish narration in the data is: *nuo sarvet näytti vähän+niin+kun puilta* 'those antlers looked a+bit+like trees'. There are also intensive relational resultative clauses, which

are like material clauses in the sense that they realise a change. Hence, in the child narratives I understand the following as resultative clauses: *his [head] get+stuck, ne tuli tosi ilkeeks* ‘they became really mean’.

As the name suggests, **behavioural processes** signify physiological and psychological behaviour (Halliday & Matthiessen 2004, 171). Processes, such as *laughing, watching, listening, raging* and *sleeping* are visible for an outside observer, which differentiates them from mental processes (Halliday & Matthiessen 2004, 171–172; Korpijaakko-Huuhka 2003, 50). Generally, behavioural processes resemble doing rather than thinking or feeling, but as with mental processes, the experiencer has to be a conscious being (e.g. *he woke up*) (Eggins 2004, 233–234).

Verbal processes are semantically located mid-way between mental and relational process regions. They are processes of human consciousness externalised and enacted in verbal actions, to be precise, saying and all its synonyms (e.g. *say, tell, talk, yell, shout, explain* and *ask*) (Eggins 2004, 235; Halliday & Matthiessen 2004, 171, 252; Shore 1992, 161). Also, symbolic exchanges of meaning are understood as verbal processes, and therefore a verbal process does not always require a conscious actor per se (e.g. *this book tells about a boy.*) (Eggins 2004, 235). In children’s tales, animal sounds such as *barking* and *hooting* denote verbal processes, as well.

With **existential clauses** things are simply recognised to exist or happen (Halliday & Matthiessen 2004, 257). Similar to relational processes, existential processes are typically realised by the verb *be* (*ibid.*). In English, the experience of existence is often grammatically formulated with a *there is something* –structure (e.g. *once upon a time (.) there wa:z a bo:y*) (Eggins 2004, 238). Finnish lacks this structure involving a dummy subject, and Finnish existential clauses are formulated roughly in the form *locative noun phrase + olla* ‘be’ + *noun phrase in nominative or partitive* (Helasvuo 2001, 7, 61–62; Shore 1992, 293). An existential clause in Finnish child narrative would therefore be for example: *puun reikässä oli pöllö* ‘in the hollow in the tree there was an owl’. One of the characteristic uses of an existential process in a narrative text is the

introduction of central participants (Halliday & Matthiessen 2004, 257). While Halliday defines existential clauses as a separate process type in English, Shore notes that, though it may be possible to treat existential clauses as process types of their own in Finnish, it is not perhaps the most revealing way to analyse Finnish language (Shore 1992, 292). In this study, I have included existential processes in the same category with relational processes in both the languages (cf. chapter 3.4.1).

2.3.4 Processes in child narratives

The discourse type the bilingual children in this study are engaged in is a narrative of more or less a traditional fairy tale, in this study a story about a boy who has a pet dog and a frog, generally known as the *frog-story* (cf. chapter 3.2). Fairy tales like this and other types of narratives characteristically entail a certain form (Suvanto & Mäkinen 2011, 63–66 review). These forms are perceived to represent the cognitive schemata underlying the way a person has learned to construe and organise events and their causes and consequences (Hickmann 2010, 282; Korpijaakko–Huuhka 2011a, 221–222, review; cf. Schank & Abelson 1977, 36–68, 167–174, 222–227). On the other hand, access to these forms also works reciprocally as learning narrative forms helps children to understand and organise experiences in new situations (*ibid.*).

One example of a narrative form or *story grammar* has the structure of thematic episodes as follows: *abstract, orientation, complication, evaluation, resolution* and *coda* or at its simplest, *onset, unfolding* and *resolution* (Labov 1972, 362–374). Also the frog-story can be structured like this (Berman & Slobin 1994b, 46). When it comes to verb usage, different text types such as stories and even different episodes within them are wielded by distinct types of process or characteristic mixtures of process types, because language we use varies in respects of what we use it for (Halliday & Matthiessen 2004, 174–175; Halliday & Hasan 1990, 38–39; Korpijaakko–Huuhka 2012, 599). As argued by Korpijaakko–Huuhka (2011a, 222 review), a child may begin a

frog-story with an idiomatic phrase, such as *once upon a time*, but more importantly a child should depict some sort of a starting point by introducing the central characters, their location and what they are doing at that moment. For process usage this typically means the realisation of existential and relational *be*-verb clauses for presenting existence, temporal and spatial location and ownership. As the plot begins and a problem emerges, there is a need for dynamic material processes. A child may also use behavioural and mental processes at this phase of the story to indicate the participant's reactions to the complications. When the efforts to solve the problem are narrated, a child should again realise events with material processes. A typical ending-phrase for a tale is *the end*, although a story may end simply in a depiction of the state of resolution.

What is described above depicts a child narrative with a good episodic structure and according to Berman and Slobin (1994b, 46), in a well narrated frog-story, there should be at least an identifiable beginning, middle and an end. However, as these researchers have discovered, all three phases appear in child narratives rather late: only about one third of five year-olds and three out of five of nine-year olds are yet able to execute all three of the basic story phases (*ibid.*, 49). Not only does the occurrence of different thematic episodes of the story increase with age but so does the ability to use the different process types in them. In studying the narratives of children across different ages, Bennet-Kastor (1986) has described the occurrence of five different types of verbs denoting motion (*GO*), action (*DO*), state and possession (*HAVE*), perception and cognition (*SEE*) and existence (*BE*) (Bennet-Kastor 1986 cited in Liles 1993, 875). Two- and three-year-old children used mostly motion and action categories, and only at the age of five the children started to employ all five types with ease (*ibid.*). Generally, children first access the semantics of concrete verb types which best correspond to Halliday's material processes (Roininen 2014, 12). The events denoted by material processes are visible and therefore easy to notice; the narratives of younger children in frog-stories are in fact more picture-bound (Berman & Slobin 1994, 73–74). In child narratives abstract relations and state of existence, human behaviour and cognitive experiences will understandably

appear later with the maturity to understand complex concepts. Mental processes, especially, illustrate the experiential depth of the story mirroring the level the speaker is able to empathise with the characters and even to correlate the human feelings of the characters to the motives that inflect the plot (Berman & Slobin 1994, 73–75). A majority of nine-year-olds are able to create these sort of frames of mind and make evaluative commentary (*ibid.*).

There are a few studies of how five-, six- and seven-year-old Finnish speaking monolingual children with typical language development use verbs in stories. In the studies that are based on Halliday's process categorisation, the children have been found to concentrate on the concrete deeds, actions and events by applying mostly material processes (Markkanen 2011; 2013, Rajala 2012, Roininen 2013 and 2014). Also verbs denoting behaviour and different relations, that is, clauses with *be* and *have* verbs, were quite substantially used. Mental processes did not occur often in the stories, in other words, the children did not express vastly the participants' inner thoughts, emotions or perceptions.

In addition, to featuring a three-phased structure and a rich scale of process types, a good story contains semantically expressive and specific verbs (Korpijaakko-Huuhka 2011a, 222 review) For example, if a child uses plenty of semantically general verbs such as *do*, *go* and *come* or the Finnish equivalents to explain the plot, the listener may have difficulty understanding the events in the story properly while having to make a lot of interpretations (*ibid.*). The scarcity or one-sidedness of the verb lexicon may be indicators of a deviance in the language development (Korpijaakko-Huuhka 2011a, 218–219 review). Nonetheless, limitations of verb vocabulary that are similar to specific language impairment may also occur with second language learning (Genesee, Paradis & Crago 2004, 147–148 review). We should also note that the vocabulary sizes as whole in each language of a simultaneous bilingual child are in general expected to be somewhat smaller than that of a monolingual child (Genesee, Paradis & Crago 2004, 87). Using only few verbs in

telling a story can also merely be one type of a narrative strategy (Korpijaakko-Huuhka 2011a, 218–219 review).

Indeed, verbs seem to be a difficult lexical category to bilingual and monolingual children alike. The findings of a Finnish vocabulary study conducted with five to six-year-old Finnish-Swedish simultaneous bilingual children by Kovalainen (2014) suggested that the understanding as well as the production of verb lexicon was weaker for the bilinguals than it was for the monolingual speakers, but on the whole, all the children performed better on noun assignments than in the verb exercises. A longer exposure time to Finnish language in the bilinguals correlated with higher scores in the vocabulary tasks in Finnish.

Despite the obvious differences between children and adults, it is useful also to observe narration and verb usage in the light of adult language. In her doctoral thesis Anna-Maija Korpijaakko-Huuhka (2003) examined verbs as one aspect of the narrative skills in Finnish aphasic speakers² and control persons with unimpaired language skills. In a cartoon strip narrative task both groups generally realised mainly material processes. In comparison to the normal speakers aphasic speakers used more relational and existential verb constructions for depictive purposes, which substituted for more specific words for actions. For aphasic speakers the verb lexicon was one-sided and the story frames were left frail or non-existent. A good story quality was strongly related to the speaker's ability to describe the main participant's material and, with control persons, also mental processes (for more logopedics studies in adult verb usage in Finnish cf. Karjalainen, Rantala & Remes 2002, Wessman 2010, Alantie 2013 and Veisu coming 2014).

When it comes to English speaking adults, Elisabeth Armstrong (2001) investigated the verb usage in aphasic speakers and control persons in different recount narratives. With control speakers her findings revealed the predominant usage of material and relational verbs while mental, verbal and behavioural verbs were used in lesser degree. The proportional demonstration of verb

² Aphasia is a multiform neurological communicational disorder acquired after the age of language acquisition caused by damage to the portions of the brain that are responsible for language (cf. Basso 2003).

categories was different for some of the aphasic speakers, which suggested that a divergent pattern of verb usage can lead to restricted variety in semantic expressiveness in recounts.

3 MATERIALS AND METHODS

In this study I will combine both qualitative and quantitative methods of working with linguistic data to observe how bilingual preschool children use verbs in story-narrations. In this section I will describe and validate the work process of choosing the informants and other materials for this research; preparing the collected raw material for analysis; forming the guiding principles of the semantic analysis; and finally transforming the analysed linguistic data into statistically workable form.

3.1 The informants

The primary data of my thesis consists of spoken narratives by pre-schoolers. The group of informants comprises 18 bilinguals who know and actively use both English and Finnish. The informants were gathered from two different English speaking preschools in the Tampere region. The selection of this locality was based on the convenience of proximity. I only opted to include six-year-old children for the study because rather little research has been conducted on the narrative skills of this age group in Finland. In addition, in the School of Social Sciences and Humanities of the University of Tampere a logopedics student Hanna Roininen was simultaneously preparing her master's thesis study on six- and seven- year-old monolingual Finnish children's verb usage in a narrative task. Thus, the age group I chose is valid for comparison with the monolingual pre-schoolers.

The kindergarten teachers preselected the informant candidates after which the parents were asked for a participation permission (cf. permission form in English Appendix 4). The principal selection criterion for the informants was that they were considered bilingual. The term,

bilingualism was not defined for the parents and for the teachers it was defined loosely as an ability to use both languages for daily communication. According to the teachers' estimation, the selected children were able to manage a task of producing story-like narrations. Another important criterion for participation was that the children should not have any diagnosed speech or language impairments. However, slight phonetic problems and imprecision of articulation were acceptable.

3.1.1 The children's background information from the questionnaires

The parents were asked to fill in questionnaires (cf. Appendix 5) for background information on the children and their speech and language development and current linguistic skills. There are two language specific sections of the questionnaire. To improve comparability with aforementioned³ logopedics study of monolingual children's verb usage, the Finnish version of this questionnaire was altered from the one utilised for gathering background information in the study of Eriksson and Rajala (2014) (cf. also Suvanto 2012 and Roininen 2014). The English version is my adapted translation. Although not all the parents returned both the English and the Finnish versions of the language skill questionnaire, I was able to confirm the children's typical language development based on the available answers and the fact that no language impairments or concerns regarding the language abilities of the children were reported by the parents.

In the table below, I have compiled some basic background information of the children. I assigned each child an identification code C with a running number from 1 to 20. I excluded two girls from the study as I did not receive the required information from their parents. Note that hence codes C14 and C17 were not present in this study, but as I intent to use the whole set of informants in a later study I have not recoded the informants. Also, I did not receive a full-length filled-in questionnaire sheet from child C19's parents, but they answered some questions presented in Table 1. To explain the content of the chart further, I have interpreted the parents written responses to the

³ The raw material of monolingual story narrations has been collected by Eriksson and Rajala (2014) and studied further by Roininen (2014).

best of my ability. Some additional information and confirmation also came from the kindergarten teachers. I left question marks to places where I was unable to gain the information or to clarify unclear information.

Table 1. Background information on the bilingual preschoolers

Name	Gender	Age (years; months)	L1 (age of acq. onset)	L2 (age of acq. onset)	L3 (age of acq. onset)	Number of languages	Has lived abroad	Speaks Finnish at home	Speaks English at home	Best language
C1	male	6;3	Finnish, Other, English (0)	-	-	3	yes	yes	yes	English
C2	female	6;8	Finnish (0)	English (3)	-	2	no	yes	yes	Finnish
C3	male	6;7	Finnish (0)	English (3)	-	2	yes	yes	yes	Finnish
C4	male	6;4	Finnish (0)	English (3)	-	2	yes	yes	no	Finnish
C5	male	6;3	?	?	?	3 or 4?	no	yes	yes	Finnish & English
C6	male	6;3	Finnish & English (0)	-	-	2	yes	yes	yes	Finnish
C7	male	6;9	Other (0)	Finnish (0-2)	English (3)	3	?	yes	yes	English
C8	female	6;1	Finnish (0)	English (?)	-	2	yes	yes	yes	Finnish
C9	male	6;7	Finnish (0)	English (3)	-	2	yes	yes	yes	Finnish
C10	female	6;7	Finnish (0)	English (3)	-	2	yes	yes	yes	Finnish
C11	male	6;3	Finnish & English (0)	-	-	2	yes	yes	yes	Finnish & English
C12	female	6;7	Finnish (0)	English (2)	-	2	yes	yes	no	Finnish
C13	female	6;10	Other (0)	Finnish (1)	English (4)	3	?	no	no	Other
C15	male	6;5	Other (0)	English & Finnish (3)	-	3	yes	yes	yes	Other
C16	male	6;0	Finnish (0)	English (2)	-	2	yes	yes	yes	Finnish
C18	male	6;9	Finnish (0)	Other (1;1)	English (2;6)	3	yes	yes	no	not able to assess
C19	female	6;2	Finnish (0)	English (?)	Other (?)	3	yes	yes	yes	Finnish
C20	male	6;4	Finnish & English (0)	-	-	2	no	yes	yes	Finnish

L1/ L2/L3 = first/second/third language

There were altogether 12 boys and six girls in the group of informants (cf. Table 1). At the time of collecting the narrations the youngest child was a precisely six-year-old male and the oldest child was a female aged six years and ten months (range: girls 6;1–6;10 & boys 6;0–6;9). The average age of the group was six years and five months. The majority of the children, 11 children, knew English and Finnish while the rest of them, seven children, knew also at least one additional language. I will refer to the names of all of these additional languages as *Other* for the protection of the children's anonymity. Ethics in studying children will be discussed more in chapter 3.1.3.

In Table 1 I have marked the children's first, second and third language based on the reported chronological order of the starting point of the language acquisition. Finnish was the first language (L1) or one of the first languages of 15 of the children. There were three children who started to acquire English and Finnish from birth and one child who has acquired Finnish, English and Other from the onset of language development. English is the second language (L2) of nine of the children. One of the children acquired English and Finnish simultaneously as second languages. Only one child had learned Other as the second language. If the children had a third language (L3), it was most often English, but exceptionally, one of the six-year-olds had acquired Other as a third language. I was unable to interpret the order of language acquisitions with child C5.

According to the definitions of de Houwer (2004, 222) and Genesee, Paradis and Crago (2004, 23), and the available background information, children C2, C3, C4, C9, C10, C12, C13, C16 and C18 could be referred as successive bilingual, whereas children C1, C6, C7, C11, C18 and C20 might potentially be defined as simultaneous bilingual considering the acquisition order of Finnish and English. More information would, however, be needed to affirm these definitions as well as consideration to the possible effects of the involvement of a third language. There was not enough information to identify children C5, C8, C19 as belonging to either of these groups, and the definition of child C15 would be different from the rest of the children because he had learned both English and Finnish after three years of age.

In four families both the parents had a mother tongue other than Finnish or English. Finnish was the mother tongue of at least one of the parents in 14 families, while English was not the native language of any of the parents. Generally, the children had begun to acquire English, either while living abroad or in the kindergarten in Finland. In Table 1, I have recorded whether a child used a language at home without having the specific information about who the child used the language with, for what purpose or how often the child uses it. Only one of the children did not speak Finnish at home, whereas 4 of the children did not use English at all in their home environment.

The child's strongest language was the parents' best estimate. Finnish was regarded as the best language of 11 of the participants. English instead was reported as the strongest language of only two of the children. Similarly, two children were reported to know English and Finnish equally well. Two of the children knew some other language better than Finnish or English. The parents of one of the children were not able to assess the best language of the child. As couple of the parents mention, parents do not always hear the child speak all the languages the child knows, neither do the parents always consider themselves best qualified to evaluate the child's language skills in all those languages.

3.1.2 The parents' observations of their bilingual children

To conclude some of the issues, a few of the parents had reported as an answer to the question "*Has there been anything special in your child's speech and language development? /Other considerations or observations?*", both troubles and positive attributes were noted by the parents in relation to bilingualism. Occasional problems in finding the right words and instances of replacing words with the equivalent from the child's other language were reported. According to one parent, compared to monolingual Finnish speakers it took the bilingual children longer to tell a story in Finnish. A few of the parents said that their children were quick to learn a new language. Some

children easily noted and took an active interest in the linguistic features of languages. One child for example was reported to hear and learn intonation patterns easily whereas another was noted to use a Finnish phoneme while speaking English simply for his own amusement. Changing from one language to another was also reported to be fluent.

Language skills had been noted to be constantly evolving variables by the parents. Children's strongest languages were reported to change during the child's lifetime according to the social and cultural environment the child lives in. The children's choice of language also varied on a daily basis according to the social context or even according to personal preference. The children might for example use a language occasionally when playing alone or with siblings, although they otherwise preferred another language in the home environment.

3.1.3 Ethics in studying children

There are four cardinal guiding principles for conducting a study with human participants differentially (O'Reilly, Ronzoni & Dogra 2013, 39). This ethical framework consists of respects for *autonomy, justice, beneficence* and *non-maleficence* (*ibid.*). I will discuss these in the light of performing this study with young children. Conducting this study, I have also considered principles of practises in logopedics; some of its ethical conventions are presented for example in *Benchmarks for Speech and Language Therapy Education in Europe; subject specific and generic competencies for newly qualified speech and language therapists* (cf. NetQues 2013, Annex I).

The first of the four main guiding principles introduced above *respect for autonomy* refers to the informants' willingness to participate in the study (O'Reilly, Ronzoni & Dogra 2013, 39, 46). In relation to under-aged children, the consent for participation had to be requested from the child's legal guardian. The permissions were collected in written form and the document included the information needed in case the parents want to withdraw their child from the study at any time or for any reason (cf. Appendix 4). Children's autonomy to make their own decisions and

to be heard should also be acknowledged (*ibid.*; Sargeant & Harcourt 2012, 24). Although, I did not directly ask their willingness to participate, I used implicit expressions and questions, which allowed the children to express their willingness or unwillingness to participate and to continue performing the task. For example when instructing a child to tell me a story for a second time, I used a conditional question form: *Jos me vaihdettaisiinkin nyt kieltä ja puhuttaisiin suomea, niin kertoisitko mulle tarinan tästä kirjasta myös suomeksi?* 'If we changed the language now and spoke in Finnish, then would you tell me a story from this book also in Finnish?'

The second principle, moral obligation of practising *justice*, means treating the participants fairly and equally respecting people's rights and legal justice (O'Reilly, Ronzoni & Dogra 2013, 39). In this study for example, all participants were interviewed in the morning, when they were still able to focus and were instructed the same way. Individuality of the children needs to be considered and in this study some of the children were given more time and guidance to perform the narration task (O'Reilly, Ronzoni & Dogra 2013, 39; cf. also Julin 2001, 101–111).

The notion of *beneficence* as the third principle means identifying both the benefits and potential risks of the research and weighing them against each other (O'Reilly, Ronzoni & Dogra 2013, 40). Correspondingly, the final principle, *non-maleficence* refers to the avoidance of causing psychological or physical harm (*ibid.*). I aimed to minimise stress to the children and to consume their time in the early education as little as possible. However, I understand that at least the kindergarten teachers and the children's parents consumed their time and effort answering questions, delivering documents and organising timetables (*ibid.*).

Non-maleficence also involves establishing *confidentiality* and *anonymity*, which are essential in respecting the children's privacy (O'Reilly, Ronzoni & Dogra 2013, 47; Sargeant & Harcourt 2012, 27). To protect the children's anonymity names and other highly identifying features need to be removed from the representations of the data (*ibid.*). According to my best judgement and principles of anonymity, I have represented exact information of the children only

when relevant to the study. Confidentiality further entails handling, using, protecting and archiving the raw data in an appropriate manner and accomplishing a trustful rapport with the participants (NetQues 2013, Annex I; O'Reilly, Ronzoni & Dogra 2013, 48).

3.2 The narrative task and collecting the stories

The children performed a narration task using a picture book *Frog where are you?* by Mercer Mayer (1969). The book has been used internationally as material in divergent studies (Strömquist & Verhoeven 2010b, 487–499 & 2010c, 500–513). In Finland, the frog-story has served as material for example for studying the narrative skills of typically developed children, prematurely born children, children with hearing impairment and children with specific language impairment (cf. e.g. Julin 2001; Peltonen 2011; Nurmi 2012; Suvanto 2012; Markkanen 2013; Roininen 2014). The frog-story cartoon strip is composed of 24 black and white pictures and is devoid of written text. It is a tale about a boy and his pet dog that have a frog kept in a glass jar. During one night, while the boy and his dog are sleeping, the frog escapes. In the morning, as the boy and the dog wake up, they notice the disappearance of the frog and begin an eventful search for their lost friend. All ends well - the boy and his dog finally find the frog and his whole family of frogs.

I collected the narrations in the preschools during November and December 2013. The children were previously unfamiliar with me and I worked with them individually asking them to tell me the frog-story first in English and then in Finnish. The narrations were audio-recorded with Zoom H2 digital voice recorder. As instructed in Strömquist & Verhoeven (2010a, 4), I gave the children the picture book to look through and then asked them to tell the story in their own words. As in the previous logopedics studies (e.g. Eriksson & Rajala 2014), I used the *naïve listener*-arrangement (cf. Liles 1993, 873 review). I instructed the children to narrate in such detail that someone who had not heard or seen the story before would understand what is happening in it by merely listening to the child's verbal delivery (cf. Example 1).

Example 1. Instructing the narrative task

Researcher:

...
so you can (.) start telling me the story in English (.) now
but let's pretend that I've never heard this story
and that I can't really even see the pictures
so you could tell in a (.) detailed way
so that I could understand the story even if I didn't see the pictures
yeah
you can start whenever you want to
you can look at the pictures you don't have to remember anything
...

The purpose of this sort of instruction was to reduce the children's tendency to exploit *joint attention*, that is, the knowledge that both the child's own and the researcher's attention are focused on the same object and the same situation (cf. e.g. Bruner 1983, 70–77 and Eilan 2005, 1). These instructions aimed at inhibiting the children from choosing extra-linguistic gestures such as pointing to pictures or using generic and semantically light words, such as *this*, *that*, *some*, *go*, *do* or the like (e.g. *ja sitten (.) se teki niin näin että se: (.) se: owl (.) se: se pöllö ei tule enää* 'and then (.) it did so like this that the: pöllö (.) the: the owl won't come anymore) instead of using semantically more precise words or expressions (e.g. *an' den de dog tried to catch de beez*) (Korpijaakko-Huuhka 2011, 222 review).

If a child did not know how to start their narration, was shy, or had difficulty understanding the task, I helped them with the beginning of the narration. I first asked the children if they had trouble beginning a story and if they gave some form of a positive response I offered them an opening line *once upon a time there was...* If this was not a sufficient aid, I asked them who is in the story, what happens in the picture or rephrased the whole previously given instructions. When already performing the narration, I helped the children, if their narration was halted or if they asked me a specific question. I assisted them by encouraging them to continue or

by offering them the names of the requested participants. I did not offer them any verb lexemes. Generally, I interacted with all the children by giving them minimal responses as encouragement. After the first, English, narration, I switched the language to Finnish and asked the children to tell me a story from the same book, this time in Finnish. If the children had difficulties during the task my procedures corresponded to the ones I applied in the English narration task.

3.3 Preparing the data

I annotated the narrations from the recorded audio files. One narration lasted 2–6 minutes on average. The system I adapted for the purposes of this thesis is based on an internationally accepted notation style originally developed by Gail Jefferson, used also by for example Korpijaakko-Huuhka (2003) (cf. Seppänen 1997, 21–23). I transcribed the English and the Finnish texts orthographically mostly in the notation accuracy of lexical content. Prosodic and extra-linguistic communicative features were not included in the transcriptions. However, I noted prominent variations of standard manner of pronunciation as well as hesitations, false initiations, repetitions, self-corrections and minimal responses. I marked pauses roughly without specifying their length.

I divided the transcribed narrative texts into lines by tone groups or tone group clusters the children produced. Tone groups are segments of speech with a noticeable intonation pattern, for example, rising or falling intonation at the end of the segment and they are usually separated by pauses (Halliday 2004, 14–16; Helasvuo 2001, 133–134, 136–137; Lauranto 2005, 134–136). Tone groupings also reflect syntactic structures almost invariably, and generally, within one tone group there is one grammatical item or section that the speaker has prosodically marked as semantically prominent (Halliday 2004, 14–16; Helasvuo 2001, 133, 136; Lauranto 2005, 134–136). I have ordered the texts in lines with the help of tone groups simply to facilitate the detection of the core verb and their accurate grammatical companions from spontaneous speech. I did not use any speech

sound analysing programs. The lines in my transcriptions always begun with a pause, but I have left them unmarked.

The children's lines in the transcription have been numbered. My own comments and answers to the children have been included in the annotations alongside the children's lines. The transcription marks and symbols are listed and explained in Appendix 2. All the children's narrations are attached in Appendix 3, but for the sake of anonymity they do not include names or codes.

3.4 Analysing the data

In the analysis I delimited my classification of verbs into five of Halliday's process types: material (MAT), mental (MENT), relational (REL), behavioural (BEH) and verbal (VERB) given that the understanding of the subcategorisation of the types aided me in identifying the encompassing main types (cf. chapter 2.3.3). I have included existential processes in the relational process category. The reason for this will be explained later on chapter 3.4.1. I identified the verb processes and semantically analysed their process classes observing the context of the particular clause as well as the context of the whole narrated text. Although I concentrated on analysing the verbs, other integral clausal components, participants and circumstances, were considered in order to appropriately acknowledge the context influencing the meaning of the verb.

I classified the processes and marked the process types in the transcriptions after each numbered line retelling the system presented by Korpijaakko-Huuhka in her doctoral thesis *Aphasic speaker's linguistic choices in a cartoon-story task* (2003, 51–53). Presiding the process I have written the abbreviation of the name of the process type in question (cf. Example 2). In these analysis lines, I have included not only the process verbs but also those participants and circumstances that I have held important in analysing the line in question, and therefore the lexical extent and configuration of the analysis lines alters depending on the context. The complete list of

the process type abbreviations and other symbols used in the process analysis, along with their explanations are documented in Appendix 2.

Example 2. Process type analysis in an English narrative

- 1) *mmm dat (.) one night de bro (.) the frog went away* **MAT the frog went away**
- 2) *and denh (.)de frog uh (.)like de (.) boy was (.) a looking at the jar*
BEH de boy was looking at the jar
- 3) *den he said oh no (.) d 'cos de frog was away* **VERB he said oh no**
REL de frog was away

3.4.1 Principles of analysing and counting the processes

Since I needed to elicit the beginnings of some of the children's stories I made the decision of starting to count the processes from the first full clause that the children produced by themselves, be it that they were repeating and completing the given starting line or they produced a beginning of their own.

Applying the principles used by Korpijaakko-Huuhka, I excluded instances of false initiations and self-corrections from the process analysis (e.g. *and then the owl (.)went (.)flew to a tree*). I also dismissed repeated processes (e.g. *an' then he (.) öö (.) s (.) said where're you fro:g where're you fro:g*). Same verbs commonly occurred more than once in one narrated text. When either the circumstances or the participants of the processes were different I considered the verbs separate process items. Likewise, if similar appearing processes referred to different pictures, or in other words, to different events or situations, I counted the verbs separately (e.g. *an' then he was shouting for his fro:g; and then they shouted to the hall; and then (.) he was shouting again for the fro:g*).

Additionally, I disregarded uncompleted verb expressions (e.g. *ja sitten se poika näh oli vähän* 'and then the boy sa was a bit') and lines which in my understanding did not concern the story itself, for example, when the children asked me a question or referred to their own cognition (e.g.

ööö (.) *I dunno what that's in finnish that once upon a time*). I did not analyse the elliptical expressions where the process verbs were omitted (*it was not in the shirt, not outsi:de*). There were some expressions in the texts that I was unable to interpret. I have left these instances unanalysed and uncounted (e.g. *an' he does come ov: (.) öö (.)ov: aa a bird*). Instead, I analysed and counted all semantically comprehensible verb forms regardless of their grammatical or phonological incorrectness (e.g. *then the boy comed out* → came; *an' agg accidentally dog ee (.) joped (.) jropt de(.) honey de (.) h beehive* → dropped). Moreover, if a child used one verb, but it was clear from the context that the child ultimately meant another word, I analysed the process based on its intended semantics. *They were fi(.) finding him from the (.) from the trees* would have been analysed as a relational process if considered by its literal form, but in this study the process was understood as behavioural because the child in my opinion meant to express that the boy and the dog were *looking for* the frog.

I defined auxiliary and modal verbs in conjunction with non-finite main verbs and made the semantic analysis of the process based on the meaning of the participial main verb. (e.g. *ampiaiset (.) oli jahtaamassa (.) koiraa* → MAT 'the bees (.) were chasing (.) the dog → MAT). In the child narratives verbs *begin*, *start* and *try* and their Finnish counterparts were frequently analysed together with their subsequent main verb. Tense or negative polarity did not affect the analysis of a process. I considered verb phrases with two verbs containing separate processes if I regarded both the verbs as bearing a precise or independent meaning in that context (e.g. *the boy went to look where it was* → MAT the boy went + BEH the boy looked; *an' the dog did want to eat* → MENT the dog wanted + MAT the dog ate). For example *want* was analysed separately and not disregarded as an auxiliary verb because semantically it depicted well what happened in the story as the dog merely wanted to eat but did not actually get to do so. Therefore, wanting was an actually occurring mental state.

Analysing the processes into semantic types is a qualitative method of working with linguistic data. To best validate the process analysis, Hanna Roininen and I discussed both of our transcribed data together. After this we identified the process items and expression which were the most problematic and used the inter-rater agreement method to discuss their analysis to consensus with the professor of logopedics, Anna-Maija Korpijaakko-Huuhka. In my data, altogether 23 per cent of the processes (N=1310) were subjected to the inter-rater agreement meeting between the three of us and analysed accordingly. This percentage seems relatively high but it includes all single process instances or those singularly counted processes that represented the process types or subtypes that were raised to the discussion by any of the three of us.

The processes I and my student colleague found difficult to analyse were less frequent specific verbs, instances of relational resultative and circumstantial clauses and indirect interrogatives (e.g. *to save; they found a frog; ja sitten ne huutoi että missä on se (.) sammakko* ‘and then they cried where is the frog’). As a result of finding the differentiation between existential clauses and relational clauses somewhat questionable in the consensus meeting, we decided to include the existential processes in the relational process category following the examples of Armstrong (2005), Wessman (2010) and Veisu (coming 2014). The manifestations of existential processes in the children’s texts were changed into relational after the inter-rater agreement meeting and are counted in the mentioned 23 per cent. Together with the student colleague, we also decided not to separate the material clauses into intransitive and transitive subtypes for process type analysis.

Generally, our decisions concerning the analysis of process types were based on existing examples whenever resembling processes were possible to detect from literature. When it came to Finnish language, Susanna Shore was the strongest authority. Most of the processes discussed in the meeting were in Finnish, and I applied the same criteria to my analysis of the

English processes combining it to the information gathered from the theory and examples presented by Halliday.

Also the pictures of the Frog-story were a notable aid while analysing the semantic nature of the verb. For example, a Finnish verb *ihmetellä* ‘to wonder’ could well have been analysed as a cognitive mental verb, but in picture three, the disbelief the boy displays when he realises the disappearance of the frog is visible to an outside viewer by the boy’s behaviour and therefore this verb was analysed as behavioural in this case (cf. Example 3). However, there is an instance where the same verb is analysed as mental in picture 11, because the illustration does not display this behaviour or even facial expressions so visibly. All process instances were, thus, analysed as individual cases although I operated following certain examples and general principles.

Example 3. The pictures help in making semantic analysis (pictures 3 and 11)



3.4.2 Lexical diversity

To study the children’s lexical diversity or how the children deploy their active vocabulary in the stories, I used the type-token ratio (TTR) of verbs and counting the number of different verb words (NDW) in the texts. TTR expresses the number of different *types* of words in relation to all words

or *tokens* in a sample text. It can be used to weigh the range of vocabulary in written language or speech, and it has been used for example to estimate children's lexical proficiency and in describing language development and disorders (Richards 1987, 201; Watkins, Kelly, Harbers & Hollis 1995, 1349–1351 review). The closer the TTR is to value 1.0, the more varied the lexicon is and the less repetition the text contains (Herdan 1960, 26–28). I observed NDW alongside TTR because it has been suggested that compared to TTR, NDW provides a more sensitive and informative estimate of the children's lexical diversity and is thus a valid means of distinguishing at least SLI children from typically developed peers (Watkins, Kelly, Harbers & Hollis 1995, 1349, 1353). By observing different verb words I also examined what verbs the children used the most in their texts.

The children's stories varied individually in length and duration. Even though TTR and NDW are known to be sensitive to the length of the text sample, I used the children's complete narrations to study these scores, because the narrative task itself was standard for all the children and in both the languages (Prins & Bastiaance 2004, 1084; Wright, Silverman & Newhoff 2003, 443). To form the NDW and TTR values, I counted the verbs in their lemmatised forms. For example in Finnish, verbs *huutaa* and *huudella* or 'to shout, to call', are counted as two separate verb type items, whereas *huutelemaan* and *huudella* represent the same type. Similarly in English, for example forms *find*, *found* and *finding* have the same lemma. I acknowledged the verbs based on their lexical forms and not based on their intended semantic forms even if these two were different from each other. As an example, in the data there was a sentence, *an' den they were fi (.) finding him from the (.) from the trees*, where I counted the verb as the form *find* despite the fact that semantically in its context the verb was used by the child more accurately to mean *to search*. For counting TTR and NDW, I only included the verbs I had also included in the process analysis.

3.4.3 Statistical methods

I modified the transcribed data into a Microsoft Excel-file (Windows 2010) and used MS Excel to count the processes in different variables (cf. example in Appendix 1). In addition to the information receivable from the transcriptions I added background information gathered from the questionnaires. This was a convenient way of creating and examining for example divergent cross tabulations. I also used Excel to formulate the figures that illustrate the occurrence of process types.

To compare the differences between the English and the Finnish narrations and the narrations of the two genders statistically with a parametric test, I used the chi-squared test. The p-value I used was $p < 0.05$ which is the common significance level applied in humanistic sciences (cf. Nummenmaa 2004, 143). As the nonparametric test, I used the Wilcoxon's matched-pairs signed rank test, firstly because it does not presume that the studied variable follows normal distribution, and secondly because the sample size in my study was less than 30 children (cf. Nummenmaa 2004, 154, 253–254). With Wilcoxon's matched-pairs signed rank I compared the individual children's process usage in English and in Finnish. Again, the p-level was $p < 0.05$. I used statistics programmes available on the internet pages *vassarstats.net* and *socscistatistics.com* to count both the chi-squared tests and the Wilcoxon's matched-pairs signed ranks.

4 RESULTS

I will present the results in this section concentrating first on the manifestations of the different process types and moving on to the amount and lexical diversity of the verbs in the child narrations.

4.1 Process types and their occurrence in bilingual children's frog-stories

4.1.1 Process types by language

In the whole transcribed data there were 1310 analysed processes from which 633 (ca. 48%) were realised in the English narrations and 677 (ca. 52%) used in the Finnish narrations. The children in

this study mastered the usage of all five different process types in both the languages. When I examined the bilingual children's English narrations and their Finnish narrations separately, the result showed that the proportional use of different process type categories was nearly identical in both the languages. The proportional demonstration of process categories in all the narrations is presented in Figure 1 below. The full distribution of processes types per language and per child is available in Table A in Appendix 1.

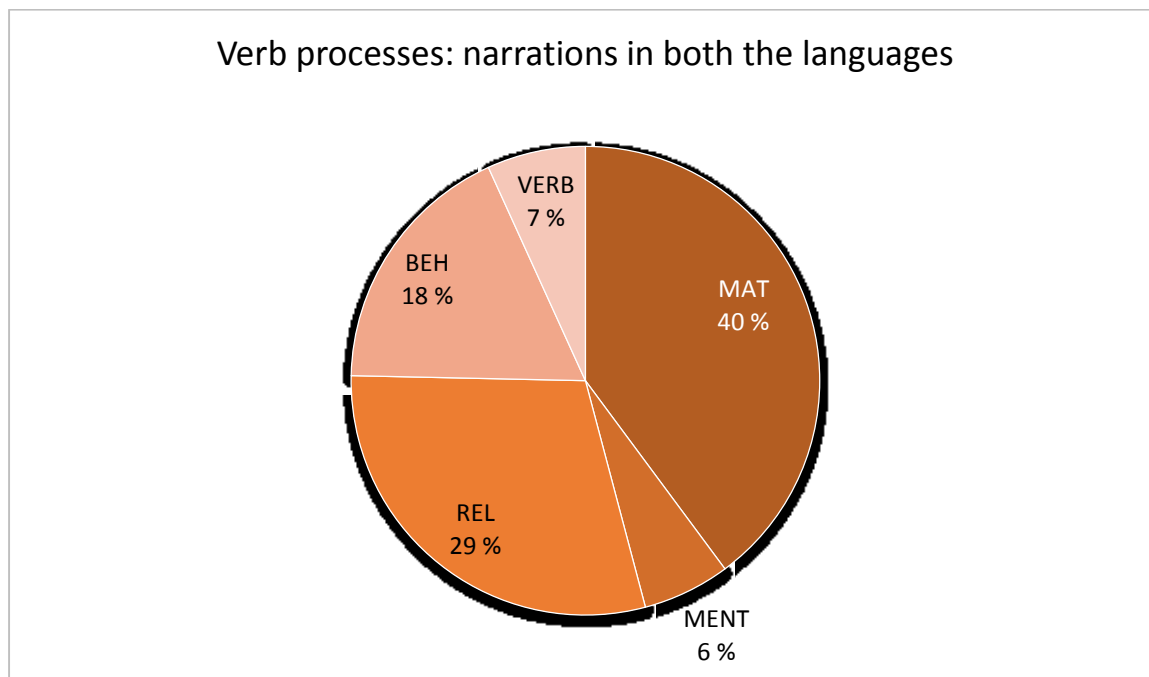


Figure 1. Distribution of different process types in narrations (N=36). Processes N=1310.

The children told the frog-story dominantly employing material processes (Engl. 39% & Finn. 41%). Therefore, the frog-stories consisted largely of concrete actions, deeds and events. Material processes create changes and are used in order to take the plot onwards. Relational processes were the second most applied process type (Engl. 31% & Finn. 28%). They were used for expressing relationships between things, state of affairs and circumstances in the world of the story as well as for noting the existence of a participant or for introducing a new one. Relational processes were mostly realised by the verbs *be* and also *have* in English and similarly by the verb *olla* in Finnish. The verbs *be*, *have* and *olla* do not take the plot onwards but are needed for giving

background information (Korpiaakko-Huuhka 2011, 222 review). The third most prolific category was the behavioural type (Engl. 17% & Finn. 18%). With these processes the children gave humanised agency to the boy protagonist and other creatures in their stories. By verbal processes the children most often depicted how the boy talks to his dog and calls out for the missing frog. Compared to other categories, verbal processes were realised notably less (Engl. 8% & Finn. 6%). Mental processes, which can be used to portray the characters' thoughts, emotions and physiological senses, were also a frugally produced category (Engl. 6% & Finn. 6%).

Table 2. Processes realised in English and Finnish narrations

Narrations	MAT	MENT	REL	BEH	VERB	Total
English	244	36	195	108	50	633
	39 %	6 %	31 %	17 %	8 %	100 %
Finnish	278	43	191	126	39	677
	41 %	6 %	28 %	18 %	6 %	100 %

As we can see from Table 2 above, the differences in relative process usage between the English and the Finnish texts were scarce. In the English narrations the children employed more multi-purpose verbs *be* and *have* for depicting static state of affairs and less dynamic material verbs for furthering the plot than they did in their Finnish stories. The children expressed the characters' verbal actions more often in English than in Finnish. According to a parametric statistical hypothesis test, chi-squared test, these differences were not statistically significant ($\chi^2 = 4.15$; $df = 4$; $p = 0.3861$). How the children used various types of process did not appear to be different depending on the language they spoke. Considering the fact that most of the children had not known English and Finnish the same amount of time during their life, I found the result somewhat surprising. There were 11 children whose best language was recorded to be Finnish, but even within this subgroup the distributions of different process categories was consistent in both the languages when tested statistically ($\chi^2 = 2.76$; $df = 4$; $p = 0.5988$).

4.1.2 Process types by gender

Examining the children's verb usage by gender, revealed that all five process types were capitalised in both the genders' texts. Table 3 below, reveals where the subtle differences between the girls and boys lied. In English, the boys highlighted the protagonist's attempts to call the frog back more than the girls did. The girls again focused slightly more on the character's feelings, thoughts and senses. Additionally, the girls concentrated more on concrete actions than the boys. Statistically there was no noteworthy difference between the gender specific performances in English narrations ($\chi^2 = 1.31$; $df = 4$; $p = 0.8597$). Compared to the English ones, the meagre gender differences were more visible in the Finnish texts. Here, the boys seemed to be more inclined in describing the dynamic activities and behaviour of the characters than the girls, who in turn focused on describing the circumstances of the story and the mental functions of the characters. Nevertheless, again the chi-squared test proved no statistically significant difference between the genders ($\chi^2 = 3.11$; $df = 4$; $p = 0.5396$). Overall, at the age of six girls and boys did not differ from each other by their process type use in either of the tested languages. Both the girls and the boys also used process types in a similar proportions whichever language they narrated in (girls: $\chi^2 = 1.09$; $df = 4$; $p = 0.8959$ & boys: $\chi^2 = 4.88$; $df = 4$; $p = 0.2998$). Even though statistically the difference was not significant between the genders, it was qualitatively interesting that the girls always realised mental processes more than the boys did. The boys on the contrary employed verbal precesses always more often.

Table 3. Process type distribution by gender in English and Finnish narratives

	Girls (n=6)						Boys (n=12)					
Narrations	MAT	MENT	REL	BEH	VERB	Total	MAT	MENT	REL	BEH	VERB	Total
English	82	12	62	37	13	206	162	24	133	71	37	427
	40%	6%	30%	18%	6%	100%	38%	5%	31%	17%	9%	100%
Finnish	95	19	73	41	12	240	183	24	118	85	27	437
	40%	8%	30%	17%	5%	100%	42%	6%	27%	19%	6%	100%

4.1.3 Process type usage at an individual level

A bit deeper look into, how the children produced different types of process, displayed a clear variation between individuals. Material, relational and behavioural processes were represented in all the children's texts in English (cf. Figure 2). Material processes dominated the narratives of ten children, relational processes were used the most by four children, material and relational were realised most by two and similarly material and behavioural were expressed most by two children. There were three narrations completely missing mental or verbal process categories. Three of the children only used four process categories and one child employed words from only three process categories. The rest, 14 of the preschoolers, exploited all five process types in English.

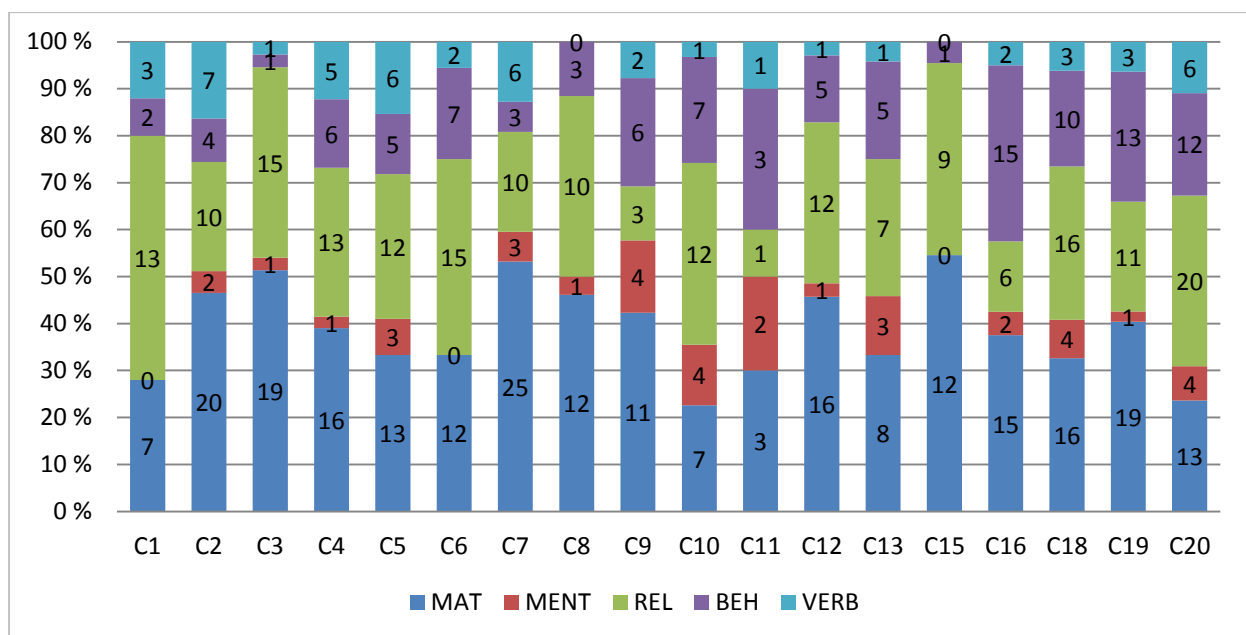


Figure 2. Individual process usage in English narrations (n=18). Children N=18. Processes n=633.

Like in the English narrations, material, relational and behavioural processes appeared in all the children's Finnish texts (cf. Figure 3). Material processes were realised the most by 15 children, behavioural processes were employed most in the narration of two children and relational processes were used the most by one child. Again there were narrations devoid of mental or verbal

processes, and thus six of the pre-schoolers created a story with only four process categories, while the rest 12 of them used all five process types in telling the frog-story.

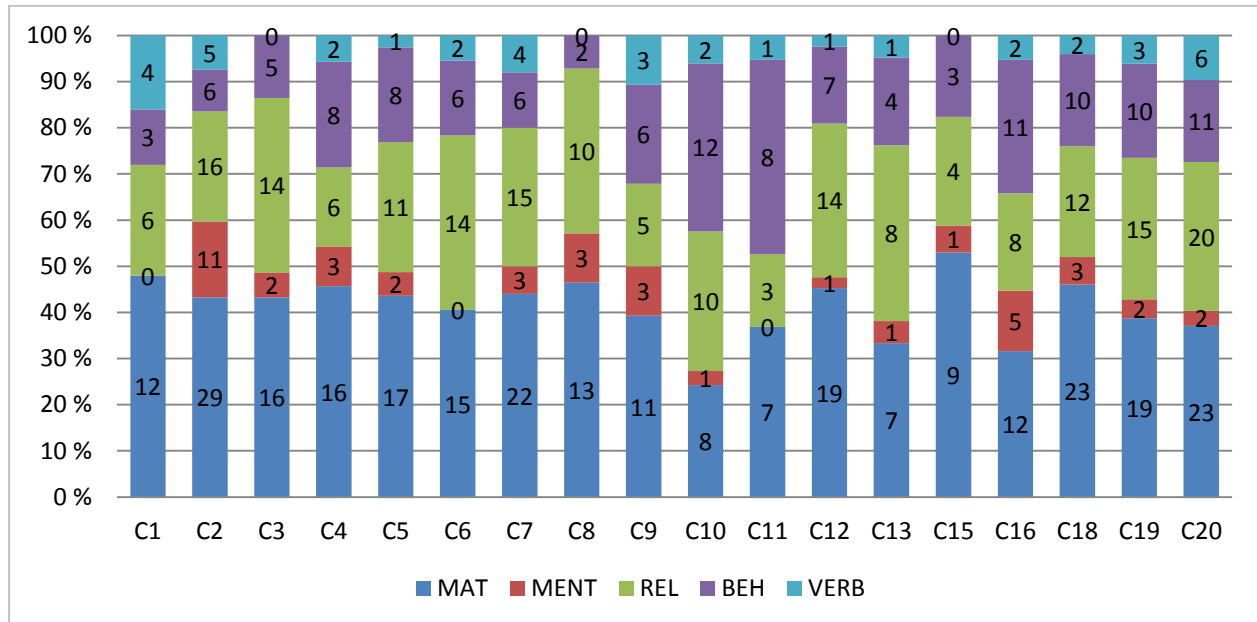


Figure 3. Individual process usage in Finnish narratives (n=18). Children N=18. Processes n= 677

Individuals C1, C3, C6, C8, C11 and C15 were of special interest in this group, because they used less than five different process categories in their stories. As we can see from Table 4 below, in this subgroup of children, mental or verbal processes were often missing from both of their narratives. However, child C3 was missing the verbal process category only in the Finnish narrative and child C11 was lacking the mental process category only in his Finnish text. Child C15 only realised one mental process in the Finnish narration; otherwise mental and verbal processes were completely missing from this child's texts.

Table 4. Children (n=6) with no mental or verbal processes in their English or Finnish narrations

Child	Age	Gender	Number of languages	First language	Best language	MENT (Engl.)	MENT (Finn.)	VERB (Engl.)	VERB (Finn.)
C1	6;3	male	3	Finnish, Other & English	English	0	0	3	4
C3	6;7	male	2	Finnish	Finnish	1	2	1	0
C6	6;3	male	2	Finnish & English	Finnish	0	0	2	2
C8	6;1	female	2	Finnish	Finnish	1	3	0	0
C11	6;3	male	2	Finnish & English	Finnish & English	2	0	1	1
C15	6;5	male	3	Other	Other	0	1	0	0

Examining these children in more detail revealed that they did not seem to have common explanatory denominators between them considering gender, the total number of languages they know or their first or best language — not even if the lack of mental and verbal processes were observed separately (cf. Table 4). All these children were reported to use both English and Finnish at home. Although, a clear majority of these children were male and knew only two languages, it should be acknowledge that the majority of all the informants shared these same qualities. However, the majority of the children (C1, C6, C8 and C11) were younger than the average age of six years and five months. The only child, whose first language (L1) or best language was other than Finnish or English, was child C15. This was the child with the least mental or verbal processes in the two narrations.

4.2 The amount and diversity of verbs in bilingual children's frog-stories

4.2.1 The quantity of verbs

As a group the bilingual children realised roughly a similar amount of verbs in the English and the Finnish frog-stories, but variations could be detected when the amounts of verbs were examined at an individual level (Engl.: range 10–55; average 35.16 & Finn.: range 17–67; average 37.61) (cf.

also Tables 5 & 6). When the total amount of processes used in English narrations and the total amount of processes used in Finnish stories were compared per child, 11 of the children realised more processes in Finnish than in English stories, while only four bilinguals employed more processes in their English stories than in their Finnish ones. Three individuals used the same amount of processes regardless the language (cf. Figure 4). According to a non-parametric test that compares two related measurements, Wilcoxon matched-pairs signed rank test (Nummenmaa 2004, 253), the differences between the total process amounts used in English and in Finnish per child were not statistically significant ($Z = -1.4483$ and $p = 0.1141$); it is also visible from Figure 4 that, although there were a few exception, the total amounts of processes used per language were typically not far apart from each other.

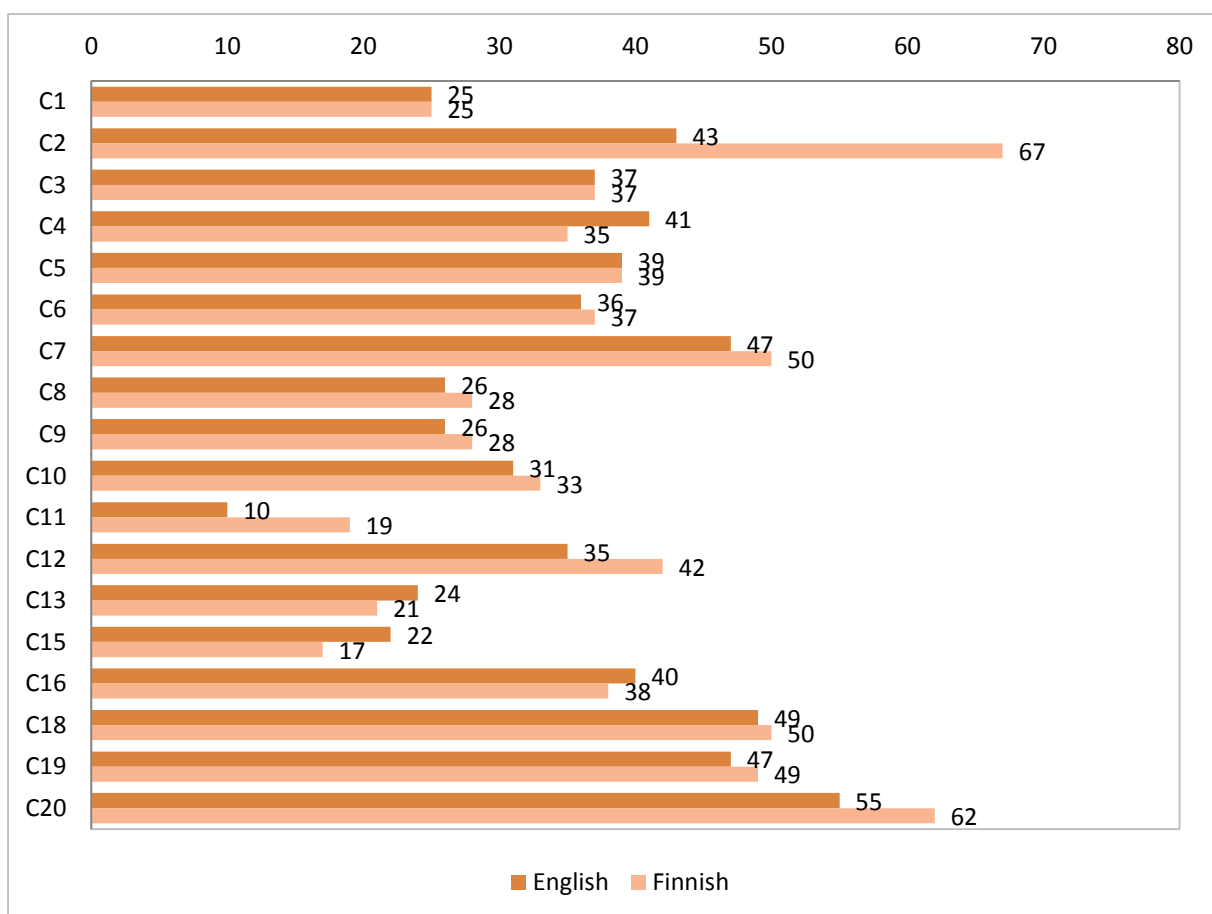


Figure 4. Total amount of processes in English and in Finnish stories per individual child

Table 5. Distribution of processes by language

	English Narrations			Finnish Narrations			Significance of the statistical difference
All bilinguals (N=18)	amount	range	average	amount	range	average	
All	633	10–55	35.17	677	17–67	37.61	Z=-1.4483; p = 0.1141
MAT	244	3–25	13.55	278	7–29	15.44	Z=-1.8175; p = 0.0688
MENT	36	0–4	2.00	43	0–11	2.39	Z=-0.1569; p = 0.8729
REL	195	1–20	10.83	191	3–20	10.61	Z=- 0.0259; p = 0.9761
BEH	108	1–15	6.00	126	2–12	7.00	Z=-1.6288; p= 0.1031
VERB	50	0–7	2.77	39	0–6	2.16	Z =-1.5993; p= N/A ⁴

A deeper investigation of the amount of processes per language per child shown in Table 4 suggested that there was no statistically significant difference between the English and the Finnish narrations considering the amounts of any of the separate process types (MAT Z = -1.8175; p = 0.0688, MENT Z = -0.1569; p = 0.8729, REL Z = -0.0259; p = 0.9761, BEH Z= -1.6288; p= 0.1031, VERB Z = -1.5993; p= N/A⁴). With material processes the p-value reached the closest to a significant value and, therefore, we could make a tentative assumption that individual children tended to use material processes more in their Finnish narrations.

With the 11 children whose best language was Finnish, the total amounts of processes in the two languages did not differ significantly (Z = -1.6818 and p = 0.0930) (Engl.: range 26–55; average 37.90 & Finn.: 28–67; average 41.45). Thus, the children did not use considerably more process verbs telling stories in their dominant language. The data was not extensive enough for testing the difference between the two languages by separate process types.

⁴ It is not possible to calculate the accurate p-value, with this test because N is 9. The W-value here is 9. The critical value of W for N=9 is 5, therefore the result is **not significant** at p < 0.05

The data was too restricted also for comparing the gender specific performances statistically, because the amount of girls and boys was unequal, but it seemed that the amounts of verbs hardly differed by gender in the English texts (girls: range 24–47; average 34.33 & boys: range 10–55; average 35.58) whereas in the Finnish texts the girls were slightly more verbose than the boys (girls: range 21–67; average 40.00 & boys: range 17–62; average 36.42) (cf. Table 7). The highest amount of verbs was realised by a girl in a Finnish story. The lowest amounts of verbs in both the languages were produced by boys as well as the highest amount of verbs in English. Usually girls tell longer stories than boys, but in this sample this did not seem to be very apparent, at least by only considering the average amount of verbs as other lexical components were not observed (Lyytinen 2003, 58 review). The distribution of processes by gender in English and Finnish narrations is available in Table B in Appendix 1.

4.2.2 The lexical diversity of the verbs

Altogether, in the English texts there were 74 different types of verbs and 633 verb tokens and in the Finnish narratives the children realised 104 different types of verbs and 677 verb tokens. In Table 5, I have gathered the top 15 of the most often used verbs from the children's stories. Abbreviations T and IT stand for transitive and intransitive verb forms. The two lists are similar in outline, and the top three items on the lists are the same in both the languages. The most prevalent verbs in the texts were the English verb *be*, performing 20 per cent of all used English verbs and *olla* in Finnish, performing 22 per cent of all the Finnish verbs. As semantic equivalents to the Finnish *olla*, the verbs *be* and *have* formed altogether 23 per cent of the English verb material. Other general verbs *go* or *mennä*, *come* or *tulla* and *take* or *ottaa* were also well represented in the texts as they can be applied to convey several different meanings.

Table 5. The most generally used verbs in English and in Finnish narrations

Top 15 most used verbs	English verb	Amount	Finnish verb	Translation	Amount
1.	<i>be</i>	129	<i>olla</i>	'be/(have)'	148
2.	<i>go</i>	55	<i>mennä</i>	'go'	56
3.	<i>look</i>	55	<i>katsoa</i>	'look'	48
4.	<i>find</i>	33	<i>nähdä</i>	'see'	24
5.	<i>fall</i>	32	<i>tulla</i>	'come'	23
6.	<i>say</i>	24	<i>huutaa</i>	'shout'	21
7.	<i>see</i>	24	<i>kiivetä</i>	'climb'	21
8.	<i>climb</i>	18	<i>löytää</i>	'find'	17
			<i>nukkua</i>	'sleep'	17
9.	<i>come</i>	17	<i>etsiä</i>	'search'	16
			<i>tippua</i>	'fall/drop' IT	16
			<i>ottaa</i>	'take'	16
			<i>pudota</i>	'fall/drop' IT	16
10.	<i>have</i>	16	<i>lähteä</i>	'leave'	14
	<i>sleep</i>	16	<i>sanoa</i>	'say'	14
	<i>drop T/IT</i>	16			
11.	<i>jump</i>	13	<i>hypätä</i>	'jump'	12
	<i>shout</i>	13			
12.	<i>take</i>	12	<i>herätä</i>	'wake up'	11
13.	<i>run</i>	11	<i>juosta</i>	'run'	10
	<i>wake up</i>	11			
14.	<i>break T/IT</i>	10	<i>rikkoa</i>	'break' T	7
	<i>search</i>	10	<i>tiputtaa</i>	'drop' T	7
15.	<i>get</i>	9	<i>jahdata</i>	'chase'	6
			<i>tipahtaa</i>	'fall/drop IT'	6
			<i>jääädä</i>	'stay/remain'	6

In the English narratives there were 33 verbs that had only been used once in the whole text data and in the Finnish texts the corresponding number, 46, was higher. These verbs consisted of semantically specific words such as *attack*, *creep*, *hide*, *listen* and *wave* in English and such as *antaa* ‘give’, *juoksennella* ‘run around’, *läpyttää* ‘flap’, *mieltiä* ‘ponder’ and *tunkea* ‘cram, squeeze’ in the children’s Finnish stories. These words also included a couple of rare dialect words or perhaps even neologistic verbs *puskata*, *pulata*, *myrähdellä* and *juoksittaa* in Finnish texts, which in my opinion could mean ‘to push’, ‘accidentally fall in the water’, ‘make a low growling sort of a noise’ and ‘carry someone while running’.

Type token ratios indicated that these bilingual preschoolers did not have a more diverse verb vocabulary in one of the two languages (Finn.: range 0.40–0.70; average 0.53 & Engl.: range 0.32–0.80; average 0.51) (cf. Table 6). Statistically, using the Wilcoxon matched-pairs signed rank test, the difference between the Finnish and English narrations was not significant ($Z = -1.3018$ and $p = 0.1936$). However, comparing the numbers of different verb words (NDW) in English and in Finnish narratives on the contrary indicated that the children realised a more versatile verb lexicon in their Finnish narratives than in their English narratives (Finn.: range 9–33; average 19.61 & Engl.: range 8–24; average 17.05). There was a clear statistical significance ($Z = -2.4169$ and $p = 0.0155$). NDW is not a ratio value, and in this case it detected the difference between the two languages in a divergent manner; perhaps more sensitively in depicting lexical diversity specifically when performances in two separate languages were compared.

Table 6. The quantity of verb tokens, TTR and NDW values in narratives by language

	English Narrations		Finnish Narrations		Significance of the statistical difference
All bilinguals (N=18)	range	average	range	average	
Amount of verbs	10–55	35.17	17–67	37.61	Z= -1.4483; p = 0.1141
NDW	8–24	17.05	9–33	19.61	Z= -2.4169; p = 0.0155
TTR	0.32–0.80	0.51	0.40–0.70	0.53	Z= -1.3018; p = 0.1936

When I observed the 11 children whose best language was Finnish, the difference between the English (TTR: range 0.32–0.61; average 0.49 & NDW: range 14–23; average 18) and the Finnish narrations (TTR: range 0.41–0.70; average 0.55 & NDW: range 15–33; average 22, 27) was significant this time when measured by either TTR ($Z = -2.1915$; $p = 0.0285$) or NDW ($Z = -2.5205$; $p = N/A^5$). It would be natural that the children would have had larger active vocabularies in their dominant language and the results here appear to support that assumption.

There was a perfect parity between the genders considering TTR average values in both languages (cf. Table 7). The boys had the notably highest TTR value in the English texts, whereas in Finnish the girls possessed the highest rate. The average NDW values showed quite little difference between the genders in either of the languages. Nevertheless, the boys displayed a wider range of lexical diversities in both languages. The two genders performed higher TTR and NDW values in their Finnish narratives than in their English ones. However, these interpretations could not be tested statistically.

⁵ It is not possible to calculate the accurate p-value, because N is 8. The W-value here is 0. The critical value of W for $N = 8$ at $p \leq 0.05$ is 3. Therefore, the result is **significant** at $p \leq 0.05$.

Table 7. The quantity of verb tokens, TTR and NDW values in narratives by gender and language

	English Narrations		Finnish Narrations	
Girls (n=6)	range	average	range	average
Amount of verbs	24–47	34.33	21–67	40.00
NDW	14–21	16.67	12–31	20.33
TTR	0.32–0.67	0.51	0.41–0.70	0.53
Boys (n=12)	range	average	range	average
Amount of verbs	10–55	35.58	17–62	36.42
NDW	8–24	17.25	9–33	19.25
TTR	0.36–0.80	0.51	0.40–0.63	0.53

5 DISCUSSION

The purpose of this study was to examine how 18 six-year-old bilingual preschoolers who knew at least Finnish and English used verbs in narrating a story from Mercer Myer’s picture book *Frog where are you?*. The children told the story both in English and in Finnish. Applying SFL-theory I observed what sort of verb processes the children used for describing the events of the story.

Additionally, I examined how versatile verb lexicons the children employed. I observed the verb usage by comparing the two languages with each other and also by comparing the performances of the two genders.

The main findings of this study were that generally the children realised all five process categories in both the languages and the proportional distribution of the categories was very much the same in English and in Finnish. I considered this surprising, as the majority of the children (11 out of 18) new Finnish better than English, and I expected this to manifest itself as more divergent proportional demonstrations of verb categories between the languages. By and large, also the two genders seemed to perform similarly regardless of the language they used. Thus, at six years of age,

gender did not appear to influence the narrative performance considering categorical verb usage. Among individuals variations in the proportional process type usage were detectable as could be presumed.

The children displayed a lot of variation in the total amounts of verbs in their narrations (range: Engl.10–55 & Finn.17–67). Nevertheless, when the two languages were compared there was no statistically significant difference in the amounts of used verbs even when the different process categories were compared separately. The two genders did not seem to differ from each other by this measure either. The most used single verbs in the narrations were *be* (20 % of all English verbs) and its Finnish counterpart *olla* (22 % of all Finnish verbs).

The amount of used verbs as such did not tell much about their quality. Measured by NDW the children used more versatile verb lexicons in their Finnish narratives than in their English ones. The majority of the children had Finnish as their best language, and it would seem natural that they were therefore more proficient in their verb usage in that particular language. To support this notion, the comparison between the two languages within the exact subgroup of 11 children whose best language was reported to be Finnish, Wilcoxon's matched pairs rank in fact showed a statistically significant difference between the languages in both NDW and TTR (cf. chapter 4.2.2).

5.1 Discussion of the main findings

The proportional distribution of the process categories was nearly completely the same in English and in Finnish. One possible explanation for this similarity might be based on the fact that certain assemblies of verb categories occur in certain discourses and in narrative discourse certain phases of the traditional story entail the usage of specific process categories (cf. Halliday & Matthiessen 2004, 174–175; Korpijaakko-Huuhka 2011, 222 review). Generally, the children seemed to have established themselves an idea of the story concept, which they had probably acquired through their dominant language. Hence, it is possible that they were able to transfer their knowledge and skills

also to the less dominant or later acquired language in performing this task (cf. Cummins 2001, 17; Yazici, Ílter & Glover 2010, 261, 266).

I compared the Finnish narrative performances of the bilingual children to the performance of the 10 Finnish monolingual six-year-old peers (age range 6;4–6;11 years) in Roininen's study (2014) and discovered that there was no statistically significant difference according to the chi-squared test ($\chi^2 = 5.49$, $df = 4$ and $p = 0.2406^6$). Measured by this method, it can tentatively be assumed that bilingual children develop the usage of different semantic categories at the same rate as their monolingual peers and that acquisition of other languages does not seem to delay this development.

The most frequently used process category was the material verb type, with which the children depicted concrete actions and took the plot of their story onwards. The same type of narrations in general are majorly produced by this category (cf. e.g. Roininen 2014, Armstrong 2001). In a picture book narration this is presumable as material processes are the easiest semantic category to convey as well as to observe visually. Relational process category was the second most used type, consisting mostly of *be* and *have* verbs in English and *olla* in Finnish. Relational clauses have an essential function in describing circumstances and characteristics and in giving background information (Julin 2001, 77). They are multipurpose words perceived also as semantically light and even easy to use, because by themselves they do not carry an intrinsic meaning (Karjalainen, Rantala, Remes 2002, 60). When the bilingual children were compared to their monolingual peers in Finnish narratives (Roininen 2014), the slight differences showed mainly in the use of these relational processes (REL: biling. 28% & monoling. 24%). The Finnish monolingual children used the single verb *olla* 'be'/'have' in lesser degree with 15 per cent of all used verbs, whereas the corresponding percentages in bilingual children were 23 in the English and 22 in the Finnish stories. It is possible that the bilingual children concentrated more on the circumstances and background

⁶ The values for counting the statistical difference were received directly from Roininen (2014)

information or perhaps they were slightly more hindered in accessing semantically weightier verb categories.

The least used process category was the mental type. This could have been expected for at least two reasons. Firstly, as Bennet-Castor has studied, the ability to produce meanings that consider thoughts, emotions and physiological senses in narrations develop later than the ability to produce meanings of action and motion (Bennet-Kastor 1986 cited in Liles 1993, 875). Secondly, the cartoon-strip does not display very much for example facial expressions or thought bubbles that might promote ample use of mental process category. Good narrations appear to involve mainly material processes, but include also mental types (Korpijaakko-Huuhka 2003, 149). Therefore, in studying children's language in a single discourse, they are not expected to use all the process types relatively as much, but a vast variety of occurrences of diverse types of process is desirable (cf. Armstrong 1995, 75).

Considered individually the children display clear variation among them, and six of them realised only four or three of the process categories. They missed either verbal or mental categories or both, which are generally the rarest and late to develop in child narratives. These results could not be tested statistically, but qualitative observation suggests that one possible explanation could be young age as five of the six children were either of the average age of six years and five months or notably below it (range: 6;1–6;5, mode: 6;3). One child was missing verbal and mental categories altogether, except for one mental verb in his Finnish narrative. The child's first and best language was other than English or Finnish. This is an unique case in the data set, but it raises for example questions about whether his family came from a culture or cultures where narrative conventions are somewhat different and his narration mirrors the level of his socialisation to Finnish and English cultures at the moment; or whether he simply did not know those sort of words yet; or if it was merely a question of personal style. Nevertheless, lacking process categories is not uncommon in children with typical language developed, and also some of

the monolingual children in Roininen's study were missing mental or verbal process categories (cf. also Rajala 2012).

The results from TTR and NDW measures were difficult to interpret as such because there are no norms available for bilingual children, Finnish monolingual children or different task types (Roininen 2014, 36). A comparison between the Finnish performances of the bilingual children and the performances of the Finnish monolingual peers in the frog-story implied that bilingual children conveyed a wider range of both TTR and NDW values than monolingual children (TTR range: biling. 0.40–0.70 & monoling. 0.53–0.69; NDW range: biling. 9–33 & monoling. 14–32) and the lexical diversity in the bilingual children appeared to be little lower than in their peers (TTR average: biling. 0.53 & monoling. 0.61; NDW average: biling. 19.61 & monoling. 22.7). Given that the bilingual group was bigger by eight individuals and also entailed children whose first or best language was not Finnish the differences seemed understandable. Overall, active lexicon and the ability to utilise it diversely in narrative speech improves with age; in a study by Kaipainen (2011) Finnish adults (23–82 years) produced type-token ratios from 0.5 up to 1.0 (average 0.8).

The bilingual children used more versatile verb lexicons in their Finnish narratives than in their English ones according NDW and according to also TTR when the subgroup of children, whose dominant language was Finnish were examined. However, the total amount of used verbs did not indicate this distinction between languages neither did the proportional distribution of different verb types. What we can conclude from this is that perhaps the children's metalinguistic skills of understanding some sort of a story schemata and creating one are generalised skills. I would regard the Finnish and English traditions of storytelling as quite consistent, which would facilitate performing the dual narration task. Lexically the children seemed to be more proficient in Finnish presumably because the Finnish language input and discourse opportunities have been more extensive in their everyday lives. The bilingual children seemed to have had the ability to produce of all five semantic process spheres in both the languages, but it is possible that within these spheres

they had more lexical options to choose from in Finnish. In English again, they were perhaps more bound to reusing the same verbs at this stage of their language acquisition.

5.2 Assessing materials and methods

5.2.1 The children and their background information

As a pilot study of a sort this study contains factors that would have made the study more optimal if regulated differently. To consider the children, the sample size used for this study is relatively small, and furthermore, an equal amount of girls and boys would have rendered gender comparison more valid. On one hand a higher consistency within the studied group of children would have perhaps increased the reliability of the results, but on the other hand the fluctuation within child bilingualism is common and completely controlling the unity of the group would have prohibited the possibility of discovering whether some manner of language use itself would point to some separate special groups or individuals.

I collected the background information of the children using questionnaire forms, some of the parents received printed paper version, whereas some were sent the forms by email. Some of the parents also had a native language other than English and Finnish, which were the only languages the questionnaires were provided in. Perhaps therefore the parents answered in various lengths and precisions, but I decided to include most of the children in the study despite the fact that the information in some of the answer sheets was incomplete. For possible future data collecting, perhaps a clearer and a more detailed questionnaire form would be the Alberta Language and Development Questionnaire (ALDeQ), which has been translated into Finnish among many other languages (original version available from:

http://www.linguistics.ualberta.ca/en/CHESL_Centre/Questionnaires.aspx).

All in all, the most reliable method for collecting the information would have been interviewing the parents personally, completing the questionnaires with them and using an

interpreter when required, but unfortunately this would have been too much time consuming and difficult to arrange. However, even the parents do not always know how their child's language skills are in all the languages the child knows neither do the parents always perceive themselves qualified to assess these skills as some of the parents themselves reported. The kindergarten teachers were also not able to assess the child's language skills in other languages than English. Thus, it seems that often there may be no-one who has a good perception of the bilingual child's language skills as whole.

The term *bilingualism* was not defined for the parents. One of the parents marked in the questionnaire form that the child in question is not bilingual. However, the kindergarten teacher regarded the child as such and the child was in fact able to narrate in two languages. This to me is an indication of the persisting ambiguity of the term, be it that the phenomenon itself is very common.

The circumstances for acquiring English in my view seemed mostly favourable for the children in the study. Some of the children had already lived abroad in English speaking countries, so it could be assumed that during their lives they have acquired English in educational environment as well as in everyday life situations. English is a respected language in Finland and because the attitudes towards it are generally good therefore also acquiring and maintaining the language in Finnish society has probably been and will be respectfully easy for the children. Many of them had Finnish parents and thinking about the future of these children there seems to be little pressure to achieve a native-like command of English especially while living in Finland. Thus, acquiring it is useful, but not vital. For those children, however, who came from families where the parents native tongues were neither Finnish nor English there has presumably been and will be more external pressure to learn first and foremost Finnish but at least the world language, English, to ensure good social, educational and economic prospects in Finland.

For many of the children Finnish was their home language and for the rest it was at least the language of the surrounding society. For all these children the function of English at the moment they participated in the study was at least to be a medium for socially interacting with peers and teachers in day care. It was also their medium of receiving the early education. Narrative skills in this context were undoubtedly much needed and I would imagine that also much promoted and even rehearsed. This may also have been one of the reasons why the children were able to produce different semantic categories fluently also in English, even if it was a less dominant language for many of the children.

5.2.2 Discussion of the narrative task and the context of narration

Cartoon strip narrations are an established method of assessing language skills in logopedics (Korpiaakko-Huuhka 2003, 33, 198). Indeed, from very early on primary caregiver and child engage in activities that resemble book reading and this interaction over stories presents a discourse domain with relatively stable main characteristics that also represent the mainstream culture (Bamberg 1987, 20 -21 review; Nelson 1996, 207). The activity of creating a story from a picture book is regarded as a discourse type that can be compared over larger stretches of time than other discourse activities (*ibid.*). Furthermore, with picture book narrations as research method children can partake in the task in a way that can be checked by the researcher currently as well as at a later point when analysing the data (Bamberg 1987, 21). For example for my analysis this proved to be a substantial help. Generally one of the benefits of using the frog-story is that it enables also international comparison.

The picture book encourages the children to produce relatively long spans of connected speech, which otherwise might be difficult to induce for research (Bamberg 1987, 21). As I asked the children to tell the story from the same book in English and in Finnish, a more spontaneous narrative task could also have created more variation in the length of narration between the two

languages. In this study the amount of verbs the children used in each of their narratives were typically rather close to each other (cf. Figure 4). The average difference between languages was 4.22 verbs in texts that ranged from 10 to 67 processes. The pictures also served as memory aids and without them, the two narrations might have been more diverse in length and semantic content.

Pictures in the frog-story require a focus on objects, persons and events (Bamberg 1987, 21). However, it has been noted that using pictures may encourage a person merely to describe the pictures rather than narrate a story (cf. Berman & Slobin 1994b, 71; Korpijaakki-Huuhka 2012, 601). Descriptive language would manifest itself as the predominance of relational processes, that is to say, mainly clauses with *be* and *olla* verbs (Karjalainen, Rantala & Remes 2002, 60).

Considering the proportional representation of process types in the bilingual children's narratives, relational processes constitute less than a third of all the clauses realised in the English or Finnish texts. As their Finnish monolingual peers, the bilingual children were able to create dynamic and eventful stories by applying material and behavioural processes in significant proportions (cf. also Roininen 2014).

As an eliciting method the pictures of the frog-story encourage the usage of certain lexical verbs, meaning other verbs than *be* or *olla*, like *search*, *shout*, *fall*, *look*, *run* and the Finnish equivalents. Therefore, the children in this study produce very similar narratives in both the languages and compared to other children in the study. In the context of narrating in two languages this generates difficulty in estimating whether the children translate their first narratives into their second ones instead of creating the second story from a new. The problem could have been avoided by using a different book for one of the narrations. However, this would have complicated the comparison between the narrations as well as the comparison with other studies. The bilingual children here produced similar verbs as the monolingual children in the studies of Roininen (2014) and Markkanen (2013). As Roininen and Markkanen both note though, norms for Finnish lexicon in the frog-story are lacking and would be very useful.

The type of the task itself as well as the collecting situation inflect the children's performance (Halliday & Hasan 1990, 38–39; Korpijaakko-Huuhka 2003, 165; Liles 1993, 873 review; cf. also Alantie 2013, 60). Even though the data was collected in familiar surroundings, the researcher was new to the children and the locality of the data collection, although secluded from the rest of the children, was noisy at times because of poor soundproofing. Some of the children may have felt nervous with an unknown person or somewhat disturbed by the noise commotion, and perhaps were therefore not always able to perform according to their usual potential.

In multiple case studies and groups studies, it is important that the researcher's instructions and other speech lines and comments are similar to each of the participant. Despite the fact that this was also my aim, some of the children needed more help in getting through the task than others. As I helped some of the first of the children by giving them the beginning line of the story and noun words in answers, I needed to do so for the others as well. This was to maintain consistency, even though the naïve listener arrangement and the example of former studies (Eriksson & Rajala 2014) would have rather instructed me to remain more uninvolved. My worry was that the children would experience too much of a frustration not to continue the task and also that not knowing or remembering the name of a thing or a participant would lead them to omit a part of the story and verb clauses they originally wanted to incorporate. It should be noted though that the researcher's participation does not always necessarily influence the child's performance (Julin 2001, 110–111).

If in need, I gave the children the beginning phrase *once upon a time...*, because I observed some of the children already ply it independently. For four and a half-year-old monolingual Finnish children in Julin's study (2001) this beginning phrase was still extremely rare. The bilingual six-year-olds seemed to recognise quite well this particular narrative register and certain conventions it entails. Even when the beginning phrase was given to the children many of them could continue the story from there with ease, because they were familiar with the typical

story format. However, for some of the participants beginning the task was still a bit difficult. In Finnish the children also used the beginning phrase *olipa kerran* rather often. Sometimes they did not remember the exact phrase, but used a free translation of the English construction instead, for example *yhdellä kerralla* (.) *siellä oli joku poika* ‘this one time (.) there was some boy’. This referred perhaps to their ability to transfer skills and knowledge across languages, but perhaps also to the phenomenon of language transfer. Many of the children also completed their story with an ending phrase (e.g. *and dat’s d+end*; *an’ when it’s done*; *ja sitten* (.) *sem+pituinen se* [idiomatic Finnish end-phrase of a story]).

The children seemed to need more help than I had initially expected. One of the reasons why I felt this way was perhaps that sometimes they sought for some words for what seemed to me like a quite a long time. Some of the parents had also reported their children experiencing occasional difficulties finding words and taking more time narrating than monolingual children. As could be expected, these bilingual children were perhaps used to not knowing absolutely all the words in both the languages and hence they may have been very prompt to express this by asking or remaining silent and waiting patiently for the word to eventually come to mind. Bilingual individuals, especially children, do not have a translation equivalent for every word. According to a study in Spanish-English bilingual speakers, the percentage of words that did not have a translation equivalent was 50 per cent in six-year-old first graders, and in fact, even with mature age, the percentage never reached full 100 (Pearson 1995 cited in Genesee, Paradis & Crago 2004, 69–70).

As characteristic to bilingual speakers, the children in this study seemed to compensate their lexical gaps by word mixing, that is, by taking words from the other language (e.g. *siellä oli toi owl* ‘there was this pöllö’; *and den he found a* (.) *ah* (.) *peura* ‘deer’) (cf. Genesee, Paradis & Crago 2004, 102 review). They even appeared to invent words, possibly as a result of language transfer (e.g. *and den* (.) *de boy had a stinky*; *and they ee trying toh* (.) *find* (.) *them in snow*

phooles; and the dog wuffed (.) for+dat; koirakin (.) myrähteli ja puhu (.) öö (.) haukku ‘the dog [a verb describing a way of producing noise] and talked (.) um (.) barked’).

Generally the bilingual children’s performances of the frog-story task were like the narratives of monolingual children. Like already the majority of five-year-olds, most of these six-year olds used a fixed tense in their narratives, in this case the imperfect (Berman & Slobin 1994b, 66). Typically the children used a third person singular to tell their stories. These children made mistakes for example in their in verb inflection (e.g. *an’ then (.) the (.) the dog fall (.) an’ he braked the cup*). As a peculiarity a few of the children also used the verb *to find* as a synonym to the verb *to search* or *to look for* (e.g. *...they were trying to find it from the (.) holes (.) an’ den they were fi (.) finding him from the (.) from the trees*).

The children told the two stories in succession starting with English and repeating the same task immediately in Finnish, and looked at the same book both the times. Organising my data collection like this may have affected the way the children performed in their latter Finnish narratives. The children may have contented themselves with renewing their first stories and largely translating the contents of their first stories. If English was not the better language of the children the children’s vocabulary may have been somewhat restricted to the available translation equivalents in the Finnish narrations. However, as we can see from the NDW and also TTR results, the children’s vocabularies in general seemed to be more versatile in the latter Finnish narratives (cf. chapter 4.2.2). On the other hand, this can be a result of the children either truly knowing their Finnish language better or the children having had practice in performing the task. They may have evolved their ideas of the events in the narratives and therefore been able to add precision and diversity in the verb lexicon. Some of the children may also have condensed their stories in the latter Finnish narratives. It would have perhaps been optimal to record the narrations on different days, perhaps even two weeks apart from each other to better avoid the possible influence of the

order the narratives were collected in, given that the children would not have remembered the previous time very well.

5.2.3 Challenges in data analysis

Using narratives as a research method requires that the researcher is familiar with both the appropriate means of collecting the data and with theoretical basis of linguistic analysis (cf. Suvanto 2012, 200). Dividing processes into five categories is a somewhat artificial way of studying language, but as a structured method makes it possible to examine language skills also statistically. Analysing the processes into categories is also not an unambiguous method as the categories overlap with each other and the process types are much dependent on the prevailing context and because of this the analysis depends to some degree also on the analyser. To better the comparability and validity of the analysis we examined narrations first together with the student colleague Roininen and discussed the analysis finally with Korpijaakko-Huuhka, the professor of logopedics in University of Tampere. In my data up to 23 per cent of the clauses were subjected to the final consensus discussion. The percentage was high and in this case tells us about the level of difficulty in analysing process semantics, especially in spontaneous speech. The inter-rater meeting was an open discussion, where I marked the discussed processes without documenting who analysed which particular process to which category. Utilising Cohen's kappa or Fleiss' kappa for quantifying inter-rater agreement would also have been telling, but it would have required more specific documentation.

Because *be* and *olla* were the most employed verbs in the text data and existential clauses are common in narratives, it would have been interesting to include the existential process category in the analysis (Halliday & Matthiessen 2004, 257; cf. also Korpijaakko-Huuhka 2011, 222 review). English and Finnish are two different types of languages and parallel analysis of the

two was not unproblematic. Having fewer categories made it somewhat easier to analyse and compare the two languages.

For analysing the children's lexical diversity I used TTR and NDW as measures. In English, the recommended sample size for counting TTR is 300 words (Prins & Bastiaance 2004, 1084). We should note, however, that English contains lexical items such as articles and prepositions which raise the number of words in a text (Korpijaakko-Huuhka, personal communication 2014). Grammatical case structures and suffixes again are characteristic of Finnish language and result to lexically more concise expressions when compared to English (e.g. *Istuuko sammakko yhä purkissa?* vs. 'Is the frog still sitting in the jar?'). Because there are no published studies in Finnish available on this subject-matter, Korpijaakko-Huuhka (personal communication 2014) has estimated that Finnish text data should be from 70 to 100 words-wide, for TTR to be considered a practical measure of lexical diversity. In this study the amounts of all words in the children's texts varied from 61 to 383 word tokens in the English narrations and from 71 to 303 tokens in the Finnish counterparts. The Finnish narration, therefore, were all of sufficient length, whereas all the English narratives did not reach the advisable limit of 300 and were not always optimal for using TTR.

The closer the TTR is to 1.0 the less the text contains repetition of same verbs (Herdan 1960, 26–28). The TTR becomes lower as the texts become longer, because the same words are more likely to reoccur (Wright, Silverman & Newhoff 2003, 444 review). In this study the text length was not controlled and this was reflected in the scores of individual children. If we compared the scores of child C2 and child C13 in English narrations, child C2 used altogether 43 verbs tokens and 21 different types of verb. Her TTR was thus 0.49. With 24 verb tokens and 16 different types of verb child C13 had a TTR of 0.67. Child C2 realised verbs vastly, but with a seemingly low lexical diversity repeating the same words more of than child C13 who in turn realised processes economically and managed to execute a relatively greater lexical diversity. Both the children

displayed a story structure with an identifiable beginning, middle and an end, but child C2 concentrated in explaining the events by paying more attention to details. This may have been because of a personal style or the way the child reacted to the type of the task itself or the way it was instructed.

There was lot of variety among the individuals because the text length was not controlled. Nevertheless, at a group level the children used roughly the same amount of verbs in their English and Finnish narrations, and I considered it possible to compare the texts of different languages to each other. However, it is not unambiguous to compare two languages with different characteristics and interpret the results and therefore I counted the TTR and NWD also in a different way. To make the languages semantically more comparable I counted together the English verbs *be* and *have*, because in Finnish they are most often semantically both manifested with a single verb *olla*. I also differentiated transitive and intransitive forms in frequently occurring English verbs *drop* and *break* because in Finnish the forms are manifested differently: *tippua* and *rikkua* are intransitive forms and *tiputtaa* and *rikkoa* are transitive forms of the English verbs *to drop* and *to break*. Counted like this, both the TTR and NDW now supported each other and showed a statistically significant difference between the languages (TTR: $Z=-2.2959$; $p = 0.02144$ & NDW: $Z = -2.8640$ and $p = 0.0042$), which would mean that the children displayed a notably more diverse verb vocabulary when speaking Finnish. The results were even more prominent when the subgroup of children who knew Finnish better than English were studied (TTR: $Z = -2.5784$; $p = 0.0099$ & NDW: $Z=-2.9341$; $p = 0.0034$). I would assume this change in the TTR result on the whole group level when compared to the first way of counting it occurred largely because *have* verb was quite common in the English narrations. In speech extracts as short and as varying in length as these, TTR seems to be sensitive to even a few word changes and the varying length of the texts. Overall, more profitable than comparing the results of two different languages to each other would be to

compare them to corresponding language specific norms if they were available for the particular type of discourse and for bilingual speakers.

5.3 Suggestions for future research

In Tampere logopedics department, there is an ongoing tradition of collecting data on child narrative skills and also this study at hand has been inspired by the logopedics child narrative research (Roininen 2014, 37). This thesis has been delimited to observing verbs, which play an essential role in the narrative discourse. Logopedics is a respectively new discipline and therefore there is little published research available on verb usage in Finnish speaking population let alone Finnish bilingual speakers.

In this study I did not observe the amount of verbs in relation to the rest of the lexicon. Undoubtedly, this would be profitable, because children with atypical language development may often narrate by employing proportionally lot of verbs (Mäkinen 2013). For example due to naming difficulties, children may condense their expressions to nearly mere verb cores (e.g. *runs away* vs. *the boy's pet dog runs away*) (*ibid.*). In addition, it would be interesting to examine how the bilingual children realise participants and circumstances in the stories (cf. chapter 2.3.2).

As also Roininen (2014, 33) noted, the frog-story functions well in studying children's language skills. In this study the task brought forward also some other interesting phenomena of language than the ones that were primarily examined. Performing this sort of a narrative task, however, is not a completely natural situation of language use. As a research method, it can be described as elicited semi-spontaneous narrative (Korpijaakko-Huuhka 2011b). The structured methods utilised in this study undoubtedly have their benefits, but to gain a more complete understanding of bilingual children's verb usage and overall language skills their speech should be observed also in other discourses, such as more spontaneous playing situations or casual conversations — that is to say, in those natural and age appropriate contexts where the children

need and use language to communicate. In the future it would also be beneficial to study children with different languages combined to Finnish and children with different language input times.

In this study, the sample of children was relatively restricted, the individuals had varied backgrounds and the type of their bilingualism (simultaneous/successive) was not regulated. In addition, the number of girls and boys was not equal. Also with sample size this small, numeric results should always be considered critically. For the prospect of discovering some sort of norms in bilingual verb usage at a certain age and in a certain discourse type, the studies should be conducted in a manner where the children's mutual similarity and perhaps also the length of text samples are more accurately regulated.

Using SF-theory and narrative discourse would enable us to study bilingual children's language from also other aspects than the experiential representation of how children represent their world view by clauses they produce. The textual metafunction of language could be studied by examining how well the children are able to create the schematic structure of the story and realise cohesion and coherence in text (Korpiaakko-Huuhka 2003). How interaction between the individuals, roles and attitudes manifest themselves via speech again tell about the interpersonal metafunction of language (*ibid.*). Looking at the multiple levels of language would give a more complete picture of language skills and shed light on the possible strong and weak points of bilingual children's language development and skills.

6 CLONCUSION

This study told at least suggestively how six-year-old bilingual children with typical language development who knew at least Finnish and English used verbs in a cartoon-strip narration. Most of the children used all five semantic process categories telling the frog-story in English and in Finnish. Overall, the most employed category was the material process type and the least produced was the mental type. Regardless of the language the children narrated in, the proportional

demonstration of semantic process categories was roughly the same. There was no statistically significant difference in the total amounts of the verbs either when the two language specific narrative performances were compared. However, when it came to lexical diversity, the children seemed to realise typically a more various verb vocabulary in their Finnish than in their English stories. It could be concluded that perhaps the six-year-old children had established an ability to produce different semantic categories in narrating a story and they were able to produce the semantic spheres in both the languages. Nevertheless, the verb vocabulary as such had probably developed to be more extensive in Finnish and the children were thus able to realise a more diverse verb lexicon in that language presumably because they had often begun to acquire Finnish earlier than English or more accurately because they had had more discourse opportunities in Finnish during their lives. It appeared also that at six year of age girls and boys did not differ from each other notably in terms of verb usage in a narrative task. Clear variation between individuals was, nonetheless, detectable.

Based on the results of this study, a closer examination of the diversity of the verb lexicon alongside with the semantic process category analysis is interesting and telling. This study has also exemplified some of the similarities as well as varieties that exist among bilingual speakers and generated some ideas for future linguistic and logopedics studies as more research is inevitably needed in Finnish bilingual children. Verb usage in bilingual children with typical language development should be studied with larger groups of informants and in various discourse situations in order for us to discover norms regarding the development and general features of verb usage. This information could be utilised to support children's bilingual language development and to identify language disorders.

REFERENCES:

- Ahonen, T. & Lyytinen, P. 2004. "Kielen kehityksen vaikeudet." In *Joko se puhuu?* 2nd ed. *Kielenkehityksen vaikeudet varhaislapsuudessa*, eds. T. Siiskonen, T. Aro & T. Ahonen & R. Ketonen, 81–99. Jyväskylä: PS-Kustannus.
- Aitchison, J. 2003. *Words in the Mind: An Introduction to the Mental Lexicon*. 3rd ed. Malden: Blackwell Publishing.
- Alantie, S. 2013. *Miten semanttista dementiaa sairastava henkilö ja tyypillisesti ikääntynyt henkilö käyttävät verbiprosesseja ja katsovat kuvaa kuvastakerrontatilanteessa. Kaksi tapaustutkimusta*. Bachelor's thesis in logopedics. University of Tampere.
- Armstrong, E. 1995. "A Linguistic Approach to the Functional Skills of Aphasic Speakers." In *Treatment of Aphasia: from Theory to Practice*, eds. C. Code & D. Müller, D, 70–89. London: Whurr.
- Armstrong, E. 2001. "Connecting lexical patterns of verb usage with discourse meaning in aphasia." *Aphasiology* 15: 1029–1045.
- Armstrong, E. 2005. "Language disorder: A functional linguistic perspective." *Clinical Linguistics & Phonetics* 19: 137–153.
- Bamberg, M. G. W. 1987. *The Acquisition of Narratives; Learning to Use Language*. Berlin: de Gruyter.
- Barac, L. & Bialystok, E. 2012. "Bilingual Effects on Cognitive and Linguistic Development: Role of Language, Cultural Background, and Education." *Child Development* 83, 2: 413–422.
- Basso, A. 2003. *Aphasia and Its Therapy*. Oxford: Oxford University Press.
- Bedore, L. M. & Peña, E. D. 2008. "Assessment of Bilingual Children for Identification of Language Impairment: Current Findings and Implications for Practice" *The International Journal of Bilingual Education and Bilingualism* 11, 1: 1–29.
- Berman, R. A. & Slobin, D. I. 1994a. "Different Ways of Relating Events: Introduction to the Study." In *Relating Events in Narrative: A Crosslinguistic Developmental Study*, eds. R. A. Berman & D. I. Slobin, 1–16. Hillsdale, N.J.: Erlbaum.
- Berman, R. A. & Slobin, D. I. 1994b. "Narrative Structure." In *Relating Events in Narrative: A Crosslinguistic Developmental Study*, eds. R. A. Berman & D. I. Slobin, 39–84. Hillsdale, N.J.: Erlbaum.
- Bialystok, E. 2001. *Bilingualism in development: Language Literacy and cognition*. New York: Cambridge University Press.
- Bliss, L.S. & McCabe, A. 2008. "Personal Narratives. Cultural Differences and Clinical Implication." *Topics in Language Disorders* 28, 2: 162–177.

- Botting, N. 2002. "Narrative as a tool for the assessment of linguistic and pragmatic impairments." *Child Language Teaching and Therapy* 18, 1: 1–21.
- Bruner, J. 1983. *Child's Talk: Learning to Use Language*. London: Oxford University Press.
- Bruner, J. 1990. *Acts of Meaning*. Cambridge: Harvard University Press.
- Bruner, J. 2010. "Narrative, culture and mind." In *Telling Stories; Language, Narrative and Social Life*, eds. D. Schiffrin, A. De Fina & A. Nylund, 45–49. Washington, DC: Georgetown University Press.
- Cummins, J. 2001. "Bilingual Children's Mother Tongue: Why is it important for education?" *Sprogforum* 19: 15–20.
- de Houwer, A. 2004. (1st p. 1995). "Bilingual Language Acquisition." In *The Handbook of Child Language*, eds. P. Fletcher & B. MacWhinney, 219–250. Oxford: Blackwell.
- Dixon, L. Q., Wu, S. & Daraghmeh, A. 2012. "Profiles in Bilingualism: Factors Influencing Kindergartners' Language Proficiency." *Early Childhood Education Journal* 40: 25–34.
- Eggins, S. 2004. *An Introduction to Systemic Functional Linguistics*, 2nd ed. London: Continuum.
- Eilan, N. 2005. "Joint Attention, Communication, and Mind." In *Joint Attention: Communication and Other Minds : Issues in Philosophy and Psychology*, eds. N. Eilan, C. Hoerl, T. McCormack & J. Roessler, 1–33. Oxford: Oxford University Press.
- Eriksson, P. & Rajala, E. 2014. *Miten kielellisesti tyypillisesti kehittyneet 6–7 -vuotiaat lapset tuottavat ja ymmärtävät Sammakkotarinan?: alustavat ikänormit*. Pro gradu thesis in logopedics. University of Tampere.
- Ervast, L. & Leppänen, P. H. T. 2010. "Kielellinen erityisvaikeus." In *Kieli ja Aivot*, eds. P. Korpilahti, O. Aaltonen & M. Laine, 212–220. Turku: University of Turku.
- Gardner-Chloros, P. & McEntee-Atalianis, L. 2005. "Language Attitudes and Use in a Transplanted Setting: Greek Cypriots in London." *International Journal of Multilingualism*, 2, 1: 52–80.
- Genesee, F. 2004. (1st p. 2000). "Early bilingual development: one language or two." In *The Bilingualism Reader*, ed. L. Wei, 327–343. London: Routledge.
- Genesee, F., Paradis, J. & Crago, M. 2004. *Dual Language Development and disorders: A Handbook on Bilingualism & Second Language Learning*. Baltimore: Paul H. Brookes Publishing Co.
- Julin, S. 2001. *"Missä on mun sammakko?" Neljä- ja puolivuotiaiden lasten Sammakkotarinoiden tarkastelua lingvistisesti ja rakenteellisesti*. Pro gradu thesis in Finnish language. University of Jyväskylä.
- Halliday, M. A. K. 1975. *Learning How to Mean: Explorations in the Development of Language*. London: Arnold.
- Halliday, M. A. K. 1985. *An Introduction to Functional Grammar*. London: Arnold.

- Halliday, M. A. K. 1987. (1st p. 1978). *Language as a social semiotic: The social interpretation of language and meaning*. London: Arnold.
- Halliday, M. A. K. & Hasan, R. 1990. (1st p. 1985). *Language, context, and text: aspects of language in a social semiotic perspective*. 2nd ed. Oxford: Oxford University Press.
- Halliday, M. A. K. & Matthiessen, C. M. I. M. 2004. *An Introduction to Functional Grammar*. 3rd ed. London: Arnold.
- Harding, E. & Riley, P. 1994. *Den Tvåspråkiga Familjen: En handbok i tvåspråkighet*. Uppsala: Förlaget Påfågeln.
- Hassinen, S. 2002. "Ollako kaksikielinen vai eikö olla?" *Virittäjä*, 3: 405–409.
- Helasvuo, M-L. 2001. *The Syntax in the Making: The emergence of syntactic units in Finnish conversation*. Amsterdam: John Benjamins Publishing Co.
- Herdan, G. 1960. *Type-token Mathematics: A Textbook of Mathematic Linguistics*. 'S-Gravenhage: Mouton.
- Hickmann, M. 2010. (1st p. 2004). "Coherence, Cohesion, and Context: Some Comparative Perspectives in Narrative Development." In *Relating Events in a Narrative Volume 2: Typological and Contextual Perspectives*, eds. S. Strömquist & L. Verhoeven, 281–306. Mahwah (N.J.): Lawrence Erlbaum.
- Häkkinen, K. 2001. (1st p. 1995). *Kielitieteen perusteet*. 5th ed. Helsinki: Suomalaisen kirjallisuuden seura.
- Kaipainen, S. 2011. *Eri-ikäisten puhujien kielenkäytön piirteitä sarjakuvatehtävässä*. Pro gradu thesis in logopedics. University of Tampere.
- Korpjaakko-Huuhka, A-M. 2003. *Kyllä se lintupelotinjuttu nyt siinä on käsittelyssä. Afaattisten puhujien kielellisiä valintoja sarjakuvatehtävässä*. Doctoral thesis. Helsinki: University of Helsinki.
- Korpjaakko-Huuhka, A-M. 2011a. "Kielenkäyttötehtävien arvioinnin suuntaviivoja." In *Lapset kieltä käyttämässä: pragmaattisten taitojen kehitys ja sen häiriöt*, eds. S. Loukusa & L. Paavola, 211–228. Jyväskylä: PS-kustannus.
- Korpjaakko-Huuhka, A-M. 2011b. "Many functions of narrative-tasks in speech-language pathology: What are we searching for?" In Nordic Conference of Clinical Linguistics -presentation. Oslo. Personal communication.
- Korpjaakko-Huuhka, A-M. 2012. "Logopedia." In *Genre-analyysi: tekstilajitutkimuksen käsikirja*, eds. V. Heikkinen, E. Voutilainen, P. Lauerma, U. Tiililä & M. Lounela, 599–604. Helsinki: Gaudeamus Oy.
- Korpjaakko-Huuhka, A-M. 2014. Personal communication 9 June 2014.
- Korpilahti, P. 2010. "Kaksikielisyys ja kielihäiriöt." In *Kieli ja Aivot*, eds. P. Korpilahti, O. Aaltonen & M. Laine, 146–151. Turku: University of Turku.

- Kovalainen, E-M. 2014. *Suomi-ruotsi-kaksikielisten 5–6 -vuotiaiden lasten sanasto*. Pro gradu thesis in logopedics. University of Oulu.
- Kress, G. & van Leeuwen, T. 2006. (1st 1990). *Reading Images: The Grammar of Visual Design*. 2nd ed. London: Routledge.
- Labov, W. 1972. *Language in the Inner City: Studies in the Black English Vernacular*. Philadelphia: University of Pennsylvania Press.
- Lauranto, Y. 2005. "Sujuvuuden mittoja." In *AFinLAn vuosikirja 2005/n:o 63: Kieli ja sosiaalinen toiminta — Language and social action*, eds. L. Kuure, E. Kärkkäinen & M. Saarenkunnas, 127–148. Jyväskylän: AFinLA.
- Lehtonen, M. 2010. "Kaksi kieltä yksissä aivoissa – kaksikielisyyden hermostollinen perusta." In *Kieli ja Aivot*, eds. P. Korpilahti, O. Aaltonen & M. Laine, 152–161. Turku: University of Turku.
- Leiwo, M. 1986. *Lapsen kielen kehitys*. 2nd ed. Helsinki: Gaudeamus.
- Leppänen, S., Pitkänen-Huhta, A., Nikula, T., Kytölä, S., Törmäkangas, T., Nissinen, K., Kääntä, L., Virkkula, T., Laitinen, M., Pahta, P., Koskela, H., Lähdesmäki, S. & Jousmäki, H. 2009. *Kansallinen kyselytutkimus englanninkielestä Suomessa: käyttö, merkitys ja asenteet*. Jyväskylä: University of Jyväskylä.
- Liles, B.Z. 1993. "Narrative Discourse in Children with Language Disorders and Children with Normal Language: A Critical Review of the Literature." *Journal of Speech and Hearing Research* 36, 5: 868–882.
- Lyytinen, P. 2004. "Kielen kehityksen varhaisvaiheet." In *Joko se puhuu? Kielenkehityksen vaikeudet varhaislapsuudessa*, 2nd ed. eds. T. Siiskonen, T. Aro & T. Ahonen & R. Ketonen, 48–68. Jyväskylä: PS-Kustannus.
- Mackey, W. F. 2004. (1st p. 2000). "The description of bilingualism." In *The Bilingualism Reader*, ed. L. Wei, 26–54. London: Routledge.
- Markkanen, M. 2013. *Miten ennenaikaisina ja pienipainoisina syntyneet lapset kuvaavat kertomuksen maailmaa? Vertaileva ryhmätutkimus*. Pro gradu thesis in logopedics. University of Tampere.
- Mayer, M. 1969. *Frog, Where Are You?* New York: Dial Books for Young Readers.
- Meisel, J. M. 2001. "The simultaneous acquisition of two first languages: Early differentiation and subsequent development of grammars." In *Trends in Bilingual Acquisition*, eds. J. Genos & F. Genesee, 11–44. Amsterdam: John Benjamins Publishing Co.
- Meisel, J. M. 2004. (1st p. 2000). "Early differentiation of languages in bilingual children." In *The Bilingualism Reader*, ed. L. Wei, 344–377. London: Routledge.
- Menyuk, P. & Brisk, M. E. 2005. *Language Development and Education: Children with Varying Language Experience*. Basingstoke: Palgrave Macmillan.

- Mäkinen, L. 2013. ”Lasten kerrontaitojen arvioiminen.” In *Katsaus logopediseen tutkimukseen Suomessa* – lecture. Logopedics, University of Oulu/ University of Tampere. Personal communication
- Nelson, K. 1996. *Language in Cognitive Development: The Emergence of the Mediated Mind*. Cambridge: Cambridge University Press.
- NetQues. 2013. *NetQues Project Report: Speech and Language Therapy Education in Europe: United in Diversity*. [internet] Available from http://www.netques.eu/wp-content/uploads/2014/01/NQ_Annex1_benchmarks_EN.pdf [Accessed 24 June 2014]
- Nummenmaa, L. 2004. *Tilastolliset menetelmät*. Helsinki: Tammi.
- Nurmi, S-M. 2012. *Sisäkorvaistutetta käyttävien lasten kertova kielenkäyttö 5–6-vuoden kuuloiässä. Monitapaustutkimus*. Pro gradu thesis in logopedics. University of Tampere.
- Pahta, P. 2004. ”Englanti - maailman kieli.” *Tieteessä tapahtuu*, 5: 8–12.
- Paradis, J. 2010. “Bilingual Children’s Acquisition of English Verb Morphology: Effects of Language Exposure, Structure Complexity, and Task Type.” *Language Learning* 60, 3: 651–680.
- Peltonen, R. 2011. *Hyvin ja erittäin enneaikaisina syntyneiden lasten kielelliset taidot 5–6-vuoden iässä. Testitulosten suhde kerrontataitoihin*. Pro gradu thesis in logopedics. University of Tampere.
- Prins, R. & Bastiaanse, R. 2004. ”Review: Analysing the spontaneous speech of aphasic speakers” *Aphasiology* 18, 12: 1075–1091.
- Rajala, E. 2012. *Verbiprosessit kouluikäisten lasten sarjakuvakerronnassa. Kolme tapaustutkimusta*. Bachelor’s thesis in logopedics. University of Tampere.
- Renvall, K., Nickels, L. & Davidson, B. (2013). “Functionally relevant items in the treatment of aphasia (part II): Further perspectives and specific tools.” *Aphasiology* 27, 6: 651–677.
- Richards, B. 1987. “Type/Token ratios what do they really tell us?” *Journal of Child Language* 14: 201–209.
- Roininen, H. 2013. *Verbiprosessit 7-vuotiaan lapsen sarjakuvakerronnassa. Monitapaustutkimus*. Bachelor’s thesis in logopedics. University of Tampere.
- Roininen, H. 2014. *Verbien käyttö 6- ja 7-vuotiaiden lasten kertomuksissa. Vertaileva ryhmätutkimus*. Pro gradu thesis in logopedics. University of Tampere.
- Sargeant, J. & Harcourt, D. 2012. *Doing Ethical Research with Children*. Maidenhead: Open University Press.
- Seppänen, E-L. 1997. “Vuorovaikutus paperilla.” In *Keskustelun-analyysin perusteet*, ed. L. Tainio, 18–31. Tampere: Vastapaino.
- Shapiro, L.R. & Hudson, J.A. 1991. “Tell Me a Make-Believe Story: Coherence and Cohesion” *Developmental Psychology* 27, 6: 960–974.

- Shore, S. 1992. *Aspects of a Systemic-Functional Grammar of Finnish*. Doctoral thesis. Sydney: Macquarie University.
- Shore, S. 1996. "Process Types in Finnish: Implicate Order, Covert Categories, and Prototypes." In *Functional Descriptions: Theory in Practice*, eds. R. Hasan, C. Cloran & D. Butt, 237–264. Amsterdam: John Benjamins Publishing Co.
- Shore, S. 2012. "Systeemis-funktionaalinen teoria tekstien tutkimisessa." In *Genre-analyysi: tekstilajitutkimuksen käsikirja*, eds. V. Heikkinen, E. Voutilainen, P. Lauerma, U. Tiililä & M. Lounela, 158–185. Helsinki: Gaudeamus Oy.
- Silvén, M. 2010. "Lapsen kaksikielinen varhaiskehitys." In *Kieli ja Aivot*, eds. P. Korpilahti, O. Aaltonen & M. Laine, 139–145. Turku: University of Turku.
- Skutnabb-Kangas, T. 1983. *Bilingualism or Not: The Education of Minorities*. transl. L. Malmberg & D. Crane. Clevedon: Multilingual Matters.
- Steinberg, D. D., Nagata, H. & Aline, D. P. 2001. *Psycholinguistics: Language, Mind and World*. 2nd ed. Harlow: Longman.
- Strömquist, S. & Verhoeven, L. 2010a (1st p. 2004). "Typological and Contextual Perspectives on Narrative Development." In *Relating Events in a Narrative Volume 2: Typological and Contextual Perspectives*, eds. S. Strömquist & L. Verhoeven, 3–14. Mahwah (N.J.): Lawrence Erlbaum.
- Strömquist, S. & Verhoeven, L. 2010b (1st p. 2004). "Appendix IIa: Frog-Story Research as per 1994." In *Relating Events in a Narrative Volume 2: Typological and Contextual Perspectives*, eds. S. Strömquist & L. Verhoeven, 487–499. Mahwah (N.J.): Lawrence Erlbaum.
- Strömquist, S. & Verhoeven, L. 2010c (1st p. 2004). "Appendix IIb: Frog-Story Research after 1994." In *Relating Events in a Narrative Volume 2: Typological and Contextual Perspectives*, eds. S. Strömquist & L. Verhoeven, 500–513. Mahwah (N.J.): Lawrence Erlbaum.
- Suvanto, A. 2012. *Lapsi tarinaa rakentamassa: kielihäiriöisten lasten kerrontataidot ja niiden kuntoutus*. Doctoral thesis. Oulu: University of Oulu.
- Suvanto, A. & Mäkinen, L. 2011. "Lasten kerrontataitojen kehitys." In *Lapset kieltä käyttämässä: pragmaattisten taitojen kehitys ja sen häiriöt*, eds. S. Loukusa & Paavola, L., 63–82. Jyväskylä: PS-kustannus.
- Svann, J. 1992. *Girls, Boys & Language*. Cambridge: Blackwell.
- Tabouret- Keller, A. 2013. "Bilingualism in Europe". In *The Handbook of Bilingualism and Multilingualism*. 2nd ed. eds. T. K. Bhatia & W. C. Ritchie, 745–769. Chichester: Wiley-Blackwell.
- Statistics Finland. 2014. *Väestö; Väestönmootokset*. [internet] Available from http://www.stat.fi/tup/suoluk/suoluk_vaesto.html#vaestonmuutokset [Accessed_23 March 2014]
- Tomasello, M. 1992. *First Verbs: A Case Study of Early Grammatical Development*. Cambridge: Cambridge University Press.

- Uccelli, P. & Páez, M. M. 2007. "Narrative and Vocabulary Development of Bilingual Children from Kindergarten to First Grade: Developmental Changes and Associations among English and Spanish Skills." *Language, speech, and hearing services in schools* 38, 3: 225–236.
- University of Tampere. 2013. *Multilingual Practices in the History of Written English* –project. [internet] Available from <http://www.uta.fi/ltl/plural/common/projects/multipract/index.html> [Accessed 6 October 2014]
- Veisu, E. (coming 2014). *Nuorten aikuisten kielelliset valinnat sarjakuvakertomuksessa*. Pro gradu thesis in logopedics. University of Tampere.
- Verhoeven, L. 2010 (1st p. 2004). "Bilingualism and Narrative Construction." In *Relating Events in a Narrative Volume 2: Typological and Contextual Perspectives*, eds. S. Strömquist & L. Verhoeven, 435–454. Mahwah (N.J.): Lawrence Erlbaum.
- Vygotsky, L. S. 1962. *Thought and Language*, ed. and transl. E. Hanfmann & G. Vakar. Cambridge: M.I.T. Press, cop.
- Väestöliitto. 2014. *Maahanmuuttajien määrä*. [internet] Available from http://www.vaestoliitto.fi/tieto_ja_tutkimus/vaestontutkimuslaitos/tilastoja-ja-linkkejä/tilastotietoa/maahanmuuttajat/maahanmuuttajien-maara/ [Accessed 12 September 2014]
- Watkins, R.V., Kelly, D.J., Harbers, H. M. & Hollis, W. 1995. "Measuring children's lexical diversity: Differentiating typical and impaired language learners." *Journal of Speech & Hearing Research* 38, 6: 1349–1355
- Wei, L. 2004. (1st p. 2000). "Dimensions of bilingualism". In *The Bilingual Reader*. ed. L. Wei, 3–25. London: Routledge.
- Weinreich, U. 1963. (1st p. 1953). *Languages in Contact: findings and problems*. Hague: Mouton
- Wessman, J. 2010. *Miten semanttista dementia sairastavat henkilöt käyttävät verbejä erilaisissa diskursseissa*. Pro gradu thesis in logopedics. University of Tampere.
- Wright, H.H., Silverman, S. W. & Newhoff, M. 2003. "Measures of Lexical Diversity in Aphasia." *Aphasiology* 17, 5: 443–452.
- Yazici, Z., İltis, B. G. & Glover, P. 2010. "How bilingual is bilingual? Mother-tongue proficiency and learning through a second language." *International Journal of Early Education* 18, 3: 259–268

APPENDIX 1: Tables of process use and an example of data displayed in Excel file

Table A: Distribution of process types per language per child

	Child narrative	MAT	MENT	REL	BEH	VERB
English	All (n=18)	244	36	195	108	50
	C1	7	0	13	2	3
	C2	20	2	10	4	7
	C3	19	1	15	1	1
	C4	16	1	13	6	5
	C5	13	3	12	5	6
	C6	12	0	15	7	2
	C7	25	3	10	3	6
	C8	12	1	10	3	0
	C9	11	4	3	6	2
	C10	7	4	12	7	1
	C11	3	2	1	3	1
	C12	16	1	12	5	1
	C13	8	3	7	5	1
	C15	12	0	9	1	0
	C16	15	2	6	15	2
	C18	16	4	16	10	3
	C19	19	1	11	13	3
	C20	13	4	20	12	6
Finnish	All (n=18)	278	43	191	126	39
	C1	12	0	6	3	4
	C2	29	11	16	6	5
	C3	16	2	14	5	0
	C4	16	3	6	8	2
	C5	17	2	11	8	1
	C6	15	0	14	6	2
	C7	22	3	15	6	4
	C8	13	3	10	2	0
	C9	11	3	5	6	3
	C10	8	1	10	12	2
	C11	7	0	3	8	1
	C12	19	1	14	7	1
	C13	7	1	8	4	1
	C15	9	1	4	3	0
	C16	12	5	8	11	2
	C18	23	3	12	10	2
	C19	19	2	15	10	3
	C20	23	2	20	11	6
English & Finnish	All (N=36)	522	79	386	234	89

Table B: Distribution of processes by gender and language

	English Narrations			Finnish Narrations		
Girls (n=6)	amount	range	average	amount	range	average
All	206	24–47	34.33	240	21–67	40.00
MAT	82	7–20	13.67	95	7–29	15.83
MENT	12	1–4	2.00	19	1–11	3.17
REL	62	7–12	10.00	73	8–16	12.17
BEH	37	3–13	6.17	41	2–12	6.83
VERB	13	0–7	2.17	12	0–5	2.00
Boys (n=12)	amount	range	average	amount	range	average
All	427	10–55	35.58	437	17–62	36.42
MAT	162	3–25	13.5	183	7–23	15.25
MENT	24	0–4	2	24	0–5	2
REL	133	1–20	11.08	118	3–20	9.83
BEH	71	1–15	5.92	85	3–11	7.08
VERB	37	0–6	3.08	27	0–6	2.25

An example display of verb processes and children's background information in MS Excel file

Name	Age	Gender	Number o	L1	Best langu	Language	Line	Utterance	MAT	MENT	REL	BEH	VERB
C1	6;3	male	3	Finnish, O	E	E	E1	a boy who	0	0	1	0	0
C1	6;3	male	3	Finnish, O	E	E	E2	they found	0	0	1	0	0
C1	6;3	male	3	Finnish, O	E	E	E3	and den a	0	0	0	0	0
C1	6;3	male	3	Finnish, O	E	E	E4	an' then t	0	0	1	0	0
C1	6;3	male	3	Finnish, O	E	E	E5	and den (.	0	0	2	0	0
C1	6;3	male	3	Finnish, O	E	E	E6	an' den th	0	0	1	0	0
C1	6;3	male	3	Finnish, O	E	E	E7	and den a	0	0	0	0	1
C1	6;3	male	3	Finnish, O	E	E	E8	an' den (.	1	0	0	0	0
C1	6;3	male	3	Finnish, O	E	E	E9	and den h	1	0	0	0	0
C1	6;3	male	3	Finnish, O	E	E	E10	an' den he	0	0	0	0	1
C1	6;3	male	3	Finnish, O	E	E	E11	and den th	0	0	1	0	1
C1	6;3	male	3	Finnish, O	E	E	E12	an' then tl	0	0	1	0	0
C1	6;3	male	3	Finnish, O	E	E	E13	eez an' de	0	0	1	0	0
C1	6;3	male	3	Finnish, O	E	E	E14	an' den th	0	0	0	1	0

APPENDIX 2: Transcription marks

[Applied from the transcription marks used by Korpijaakko-Huuhka (doctoral thesis 2003)]

Abbreviations and symbols in the transcriptions

C	child
S	researcher
(.)	pause (duration not specified)
in+the	words pronounced in immediate succession
an'	phoneme omission
fro:g	elongated phoneme
(-)/(--)/(---)	unclear phoneme or syllable/unclear word/longer unclear expression
(dog)	word heard unclearly
'deer'	translation: word meaning in English or in Finnish

Abbreviations and symbols in the process analysis

MAT	material
MENT	mental
REL	relational
BEH	behavioural
VERB	verbal
-V	verb element missing
-	expression not analysed or counted
Ø	ellipsis (number indices attached to an ellipsis-symbol indicate to which lexical item [in square brackets] the ellipsis refers to)
“ <u>slept</u> ”	quotation marks: original form altered for semantic analysis underlining: verb connected to the presiding verb
[[found]]	researcher's interpretation of the word meaning
*	the clause continues

APPENDIX 3: Six-year-old bilingual children's frog-story narrations in English and in Finnish

Narrations 1-2/36

C: mmm (.) what w'z it (.) what w'z: i:t

S: are you thinking about how (.) how to start a story (.)

ah

you c'n start (.) once upon a time there was

C:

- | | |
|--|--|
| 1) a boy who could (--) a do:g and den they(.) an' den they: (.) had a frog | REL they had a frog |
| 2) they found a frog an' (.) frog at the night+time | REL they found a frog |
| 3) and den an' den they were sleeping | BEH they were sleeping |
| 4) an' then the: fro:g g (.) w'z: awa:y when he was sleeping | REL the frog w'z away |
| | BEH he was sleeping |
| 5) and den (.) an' den at the morning (.) h he was very afraid coz coz de fro:g waz away an' den | REL he was very afraid |
| | REL de fro:g waz away |
| 6) an' den they were (.) trying to find+hit um | REL they were trying to find+hit |
| 7) and den an' he waz (.) he waz calling for him outside | VERB he waz calling for him |
| 8) an' den (.) an' den (.) an+den his do:g went to out from the of the window | MAT his do:g went out from the window |
| 9) and den he he broke the glass an+den | MAT he broke the glass |
| 10) an' den he said bad doggy an+den | VERB he said bad doggy |
| 11) and den they were again trying to find him an' den they they were shouting for him+man' den | REL they were trying to find him |
| | VERB they were shouting for him |
| 12) an' then they were trying to fi (.) find it from the from the bee::z | REL they were trying to find it from the bee::z |
| 13) eez an' den dey (.) they were trying to find it from the (.) holes | REL they were trying to find him from the holes |
| 14) an' den they were fi (.) finding him from the (.) from the trees | BEH they were finding [[looking for]] him from the trees |
| 15) and they ee trying toh (.) find (.) them in snow (phooles) | REL they were trying to find them in snow (phooles) |
| 16) an+den+dey+were trying toh (.) to (.) find (.) them | - |
| 17) an+den a moose pushed them down the hill an+den | MAT a moose pushed them down the hill |
| 18) an+den they found him in the water | BEH they found [[looked for]] him in the water |
| 19) an+den they (.) they were ok | REL they were ok |
| 20) an+den they went on a (.) an' den they went on a (.) on+na boat | MAT they went on a boat |
| 21) and den they were trying to find him | REL they were trying to find him |
| 22) and den the fro:g was was in the other side of the boat | REL the fro:g was in the other side of the boat |
| 23) an' de:n an' then an' then they went over the lake again an+den they went backh | MAT they went over the lake |
| | MAT they went backh |
| 24) an then they went back home | MAT they went back home |
| 25) de end | - |

C:

- | | |
|---|--|
| 1) <i>si siel+loli yksi poika ja yksi koira</i> | REL siel+loli yksi poika ja yksi koira |
| 2) <i>ja sitten+ne löysi yhen (.) n (.) sammakon ja sitten</i> | REL ne löysi yhen sammakon |
| 3) <i>kun kun se poika olis nukkumassa sitten se sammakko meni pois ja sitten</i> | BEH se poika olis nukkumassa
MAT se sammakko meni pois |
| 4) <i>ja sitten kun+ne heräs sitten</i> | BEH ne heräs |
| 5) <i>sitten se sammakko oli poissa</i> | REL sammakko oli poissa |
| 6) <i>ja sitten</i> | - |
| 7) <i>ja sitten n' oli: yrittämässä löytää sitä</i> | REL ne oli yrittämässä löytää sitä |
| 8) <i>ja sitten (.) n' oli huutamassa</i> | VERB ne oli huutamassa |
| 9) <i>ja niitten koira (.) rikko sen lasin</i> | MAT koira rikko sen lasin |
| 10) <i>ja sitten (.) ja sitten meni ulos (.) huutamaan</i> | MAT Ø meni ulos VERB Ø " <u>huusi</u> " |
| 11) <i>ja sitten ne meni (.) ampiaispesälle huutamaan niitä</i> | MAT [ne]1 meni ampiaispesälle VERB Ø1 " <u>huusi</u> " niitä |
| 12) <i>ja sitten ne meni (.) puuhun huutamaan niitä</i> | MAT [ne]2 meni puuhun VERB Ø2 " <u>huusi</u> " niitä |
| 13) <i>ja sitten ne meni (.) meni puu (.) ja sitten meni puuhun</i> | - |
| 14) <i>mmm mmm ni ja sitten se meni (.) toiseen paikkaan löytäis+sitä</i> | MAT [ne]3 meni BEH Ø3 " <u>löysi</u> " sitä [[etsi]] |
| 15) <i>ja sitten+se meni ja sitten s siellä oli (.) mö:rkö</i> | MAT se meni
REL siellä oli mö:rkö |
| 16) <i>ja sitten siel ja sitten se puskas ne puo (.) mäen alas</i> | MAT sitte se puskas ne mäen alas |
| 17) <i>ja sitten (.) ja sitten ne (.) ne tipahtih veteen</i> | MAT ne tipahtih veteen |
| 18) <i>ja sitten (.) ja sitten näe puun</i> | - |
| 19) <i>ja sitten ne meni sen (.) sen ylitse ja sitten</i> | MAT ne meni sen ylitse |
| 20) <i>ja sitten se (.) se sammakko oli (.) siellä</i> | REL se sammakko oli siellä |
| 21) <i>ja sitten (.) ne otti se+mukaan</i> | MAT ne otti se+mukaan |
| 22) <i>ja sitten+ne+meni kotiin</i> | MAT ne+meni kotiin |

Narrations 3-4/36

S: *you're thinking about like (.) how to start a story*
yeah (.) how about like um (.) once upon a time there was
an' who's in the story

C:

- 1) a boy

S: *yeah*

C:

- | | |
|--|--|
| 2) <i>and he had a frog</i> | REL he had a frog |
| 3) <i>an' when the boy was sleeping the frog (.) went (.) away</i> | BEH the boy was sleeping
MAT the frog went away |
| 4) <i>an' they searched him (.) searched him</i> | BEH they searched him |
| 5) <i>outside</i> | - |
| 6) <i>first from (--)</i> | - |
| 7) <i>they searched from holes</i> | BEH they searched from holes |
| 8) <i>(--)</i> | - |
| 9) <i>(---)</i> | - |
| 10) <i>they (.) stepped on a rock</i> | MAT they stepped on a rock |

- | | | | |
|-----|--|------|-----------------------|
| 11) | <i>and they saw a moose</i> | MENT | they saw a moose |
| 12) | <i>then they fell into a pond</i> | MAT | they fell into a pond |
| 13) | <i>and then (.) then (.) they saw the frog</i> | MENT | they saw a frog |
| 14) | <i>and then they said bye bye</i> | VERB | they said bye bye |

- | | | | | |
|---------------|-----|--|------|--------------------------|
| C: | 1) | <i>olipa kerran poika (.) millä oli sammakko</i> | REL | olipa kerran poika |
| | | | REL | millä oli sammakko |
| S: mmm | | | | |
| C: | 2) | <i>kun poika oli nukkumassa (.) sammakko lähti pois</i> | BEH | poika oli nukkumassa |
| | | | MAT | sammakko lähti pois |
| | 3) | <i>sit (.) sit ne etsi (.) etsi</i> | BEH | [ne]1 etsi |
| | 4) | <i>etsi ulkoo</i> | BEH | Ø1 etsi ulkoo |
| | 5) | <i>etsi mäeltä</i> | BEH | Ø1 etsi mäeltä |
| | 6) | <i>etsi (.) rei'istä</i> | BEH | Ø1 etsi rei'istä |
| | 7) | <i>etsi korkeelta</i> | BEH | Ø1 etsi korkeelta |
| | 8) | <i>etsi puusta</i> | BEH | Ø1 etsi puusta |
| | 9) | <i>etsi kivistä (.) 'iviltä</i> | BEH | Ø1 etsi kiviltä |
| | 10) | <i>hirvi nous (.)ja juoksenneli sem+päällä</i> | MAT | [hirvi]2 nous |
| | | | MAT | Ø2 jouksenneli |
| | 11) | <i>sit se hirvi putos</i> | - | |
| | 12) | <i>ja sit se hirvi meinas putoo</i> | MAT | se hirvi meinas putoo |
| | 13) | <i>ja sit poika putos veteen</i> | MAT | poika putos veteen |
| | 14) | <i>sit (.) sit se meni oksan yli</i> | MAT | se meni oksan yli |
| | 15) | <i>sieltä se löysi sammakot</i> | REL | sieltä se löysi sammakot |
| S: mmm | | | | |
| C: | 16) | <i>ja sit se sano (.) ja sit se sano heippa ja lähti</i> | VERB | [se]2 sano heippa |
| | | | MAT | Ø2 lähti |

Narrations 5-6 /36

- | | |
|-----------|--|
| C: | <i>what I'm gonna do again</i> |
| S: | <i>umm you can tell the story that's in the book</i> |
| | <i>you can tell it in your own words</i> |
| C: | <i>mmm</i> |
| S: | <i>you can start for example by</i> |
| | <i>o:nce upon a time there was a bo:y an'</i> |
| | <i>if you like to start that way</i> |
| | <i>you can just tell me what's happening like in the book like</i> |
| | <i>if if I didn't see the pictures at all so you could describe what's in the book</i> |
| C: | <i>yes</i> |

S: yeah

C: mmm (.) mmm

C:

1) *once upon a time there was a boy*

2) *he had a frog*

S: *that's a good start*

C13:

3) *then it was night+time (.) an' he went to sleep*

4) *but then the frog ran away*

5) *the:n (.) the boy wake up an'*

6) *he peeked (.) and found the frog*

7) *it was not in the shirt*

8) *not outsi:de*

9) *then he went to the forest (.) to see*

10) *it was not (.) in (.) in the birdnest*

11) *not (.) i (.) in the tree*

12) *in the tree there was living a' owl*

13) *then he found the big rock*

14) *an' the owel was following*

15) *then he saw an animal*

16) *he went to the animals back to ride*

17) *then the animal pushed to the (.) water*

18) *an' the boy fell to the water*

19) *then (.) he found*

20) *then he heard the frog's+sound*

21) *and then he followet (.) the sount*

22) *then he found the frog*

23) *and+then (.) then he said (.) bye*

24) *the: end*

REL there was a boy

REL he had a frog

REL it was night+time

MAT [he] 1 went BEH Ø1 "slept"

MAT the frog ran away

BEH the boy wake up

BEH[he]2 peeked

BEH Ø2 found [[looked for]] the frog

REL it was not in the shirt

-V

MAT [he]3 went to the forest MENT Ø3 "saw"

REL it was not in the birdnest

-V

BEH in the tree there was living a' owl

REL he found the big rock

MAT the owel was following

MENT he saw an animal

MAT [he]4 went to the animals back MAT Ø4 "rode"

MAT the animal pushed to the water

MAT the boy fell to the water

-

MENT he heard the frog's+sound

MAT he followet the sount

REL he found the frog and

VERB he said bye

-V

C:

1) *yhdellä kerralla (.) siellä oli joku poika*

2) *sitten se meni nukkuun*

3) *mut sitten (.) sammako lähti*

4) *sitten (.) se poika kattosi sen kuppiin ja siellä ei ollu sammakko*

5) *ei ulkona*

6) *sitten (.) se meni etsimään se*

7) *se ei ollu puussa*

8) *se ei ollu puun reikässä*

9) *puun reikässä oli pöllö*

10) *sitten se löysi (.) iso kivi*

REL siellä oli poika

MAT [se]1 meni BEH Ø1 "nukku"

MAT sammakko lähti

BE poika kattosi sen kuppiin ja

REL siellä ei ollu sammakko

-

MAT [se]2 meni BEH Ø1 "etsi"

REL se ei ollu puussa

REL se ei ollu puun reikässä

REL puun reikässä oli pöllö

REL se löysi iso kivi

S:	11) <i>mut siellä asui (.) kir (.) mmm (.) hirvi</i>	BEH siellä asui hirvi
C:	<i>hmm</i>	
	12) <i>ja sitten (.) sitten se meni sen kanssa</i>	MAT se meni sen kanssa
	13) <i>ja sitten se hirvi työnsi sen</i>	MAT hirvi työnsi sen
	14) <i>se poika tippu (.) tippu siin vetelle</i>	MAT poika tippu vetelle
	15) <i>sitten (.) se löysi (.) ne (.) ne sammakot</i>	REL se löysi ne sammakot
	16) <i>sitten (.) se halusi ottaa yksi</i>	MENT [se]3 halusi MAT Ø3 ottaa yksi
	17) <i>sitten se löysi yks</i>	REL se löysi yks
	18) <i>ja sitten se sano heippa</i>	VERB se sano heippa
	19) <i>sen pituinen se</i>	-V

Narrations 7-8/36

C: *so I will tell what happens*

S: *yeah*

C:

- | | |
|--|--------------------------------|
| 1) <i>first there was the dog looked into a frog</i> | BEH the dog looked into a frog |
| 2) <i>an' then a boy looked at it too</i> | BEH a boy looked at it |

S: *mmm*

C:

- | | |
|---|--|
| 3) <i>then the boy wanted to dress up</i> | MENT [the boy]2 wanted MAT Ø 2 " <u>dressed up</u> " |
| 4) <i>and then the dog looked inside it</i> | BEH the dog looked inside it |
| 5) <i>and the frog wasn't there anymore</i> | REL the frog wasn't there anymore |

S: *oh*

C:

- | | |
|---|--|
| 6) <i>then the dog had to (.) ha (.) have the glass (.) jar in her head</i> | REL the dog have the glass jar in her head |
| 7) <i>and they went outside</i> | MAT they went outside |
| 8) <i>and then (.) the dog jum (.) jumped of: the winter (.) em of: the wind (.) ee window</i> | MAT the dog jumped off the window |
| 9) <i>and the:n (.) the boy (.) jumped there too (.) and the glass j:ar went broken</i> | MAT the boy jumped there |
| | REL the glass j:ar went broken |
| 10) <i>the:n they went outsi:de</i> | MAT they went outsi:de |
| 11) <i>and the:n there was a beehive</i> | REL there was a beehive |
| 12) <i>the beeskp ja+ gu+re just coming out: (.) out</i> | MAT the bees were just coming out |
| 13) <i>the:n (.) the do:g was g(.) jumping into the beehive</i> | MAT the dog was jumping |
| 14) <i>an' the:n (.) the boy looked into a hole</i> | BEH the boy looked into a hole |
| 15) <i>an' the:n (.) they ha:ve (.) the do:g em (.) pushed the tree dat the beehive (.) came (.) mm (.) fell down</i> | MAT the dog pushed the tree |
| | MAT the beehive fell down |
| 16) <i>and then the boy looked into a hole (.) what was in the tree</i> | BEH the boy looked into a hole |
| | REL what was in the tree |
| 17) <i>there was an owl</i> | REL there was an owl |
| 18) <i>the dog went away 'cause the bees were (.) mad and they wanted (.) they were flying after the dog</i> | MAT the dog went away |

- 19) *the owl was (.) still (.) flying on top of the boy*
- 20) *and the:n (.) the boy jumped into (.) on top of a rock*
- 21) *an' behind there (.) was a reindeer*
- 22) *the reind (.) deh (.) the (.) boy wa:(.) was stuck in the reindeer's h :orns*
- 23) *an' then (.) the reindeer pushed the (.) em the boy into (.) a (.) little lake*
- 24) *the:n there wa:s a fro:g*
- 25) *and then (.) the boy (.) picked up the fro:g*
- 26) *then: the boy (.) went out of the re:ber (.)river*
- 27) *and there (.) was (.) the (.) fro:g's family*
- 28) *the:n (.) they were in the lake an' took (.) a one fro:g 'cause (.) the (.) the frog's parents said so*

REL the bees were mad
 MAT they were flying after the dog
 MAT the owl was flying
 MAT the boy jumped
 REL behind there was a reindeer
 REL the boy was stuck in the reindeer's horns
 MAT the reindeer pushed the boy
 REL there was a fro:g
 MAT the boy picked up the fro:g
 MAT the boy went out of the river
 REL there was the fro:gs family

 REL [they]3 were in the lake
 MAT Ø3 took one fro:g
 VERB the frog's parents said so

C:

- 1) *olipa kerran (.) poika*
- 2) *ja (.) koira (.) katsoi (.) mm (.) katsoi (.) öö sammakkoa (.) joka oli lasipurkissa*

- 3) *sitten (.) sammakko hyppäsi pois (.) lasipurkista kun poika nukkui*

- 4) *sitten poika katsoi ihmeissään*
- 5) *ja koira ihmetteli (.)et koska sammakko oli kadonnut*

- 6) *sitten (.) poika halusi pukea vaatteet*
- 7) *ja koira katsoi sin (.) öm (.) lasipurkin sisälle (.) ja jäi kiinni*

- 8) *sitten he (.) öm (.) koira (.) hyppäsi pois (.) ö ulos ikkunasta (.) lasipurkki päässään*

S: hmm

C:

- 9) *poika oli (.) öm (.) suuttunut kun h öm hän (.) hyppäsi (.) ikkunasta lasipurkki päässään*

- 10) *ja se meni rikki*
- 11) *sitten he menivät metsään*
- 12) *metsässä oli (.) ampiaispesä*
- 13) *ampiaiset olivat juuri tulossa ulos*
- 14) *sitten (.) hek menivät lähemmäs*
- 15) *koira hyppeli (.) öm (.) ampiaispesän alla (.) ja yrittäen saada sen+kiin: (.) öm (.) irti puusta (.) hm*

- 16) *se tippui alas (.) ja meni rikki*

- 17) *ampiaiset suuttuivat (.) ja jahtasivat koiraa*

- 18) *sillä välin (.) poika kiipesi puuhun*

REL olipa kerran poika
 BEH koira katsoi sammakkoa
 REL joka oli lasipurkissa
 MAT sammakko hyppäsi pois
 BEH poika nukkui
 BEH poika katsoi ihmeissään
 BEH koira ihmetteli
 REL sammakko oli kadonnut
 MENT[poika]1 halusi MAT Ø 1 "puki" vaatteet
 BEH[koira]2 katsoi lasipurkin sisälle
 REL Ø2 jäi kiinni
 MAT koira hyppäsi ulos ikkunasta

 REL poika oli suuttunut
 MAT hän hyppäsi ikkunasta
 REL se meni rikki
 MAT he menivät metsään
 REL metsässä oli ampiaispesä
 MAT ampiaiset olivat juuri tulossa ulos
 MAT he menivät lähemmäs
 MAT [koira]3 hyppeli REL Ø 3 "yritti saada" sen irti puusta
 MAT [se]4 tippui alas
 REL Ø4 meni rikki
 BEH [ampiaiset]5 suuttuivat
 MAT Ø5 jahtasivat koiraa
 MAT poika kiipesi puuhun

19) *ja (.) samalla hän katsoi reikään (.) jo (.) joka oli puussa*

20) *sitten (.) sieltä me(.) tuli pöllö*

21) *ja sitten ampiaiset jahtasivat koiraa edelleen*

22) *sitten+pöllö oli pojan yläpuolella*

23) *sitten hän kiipesi kivelle*

24) *ja siellä takana oli poro*

25) *sitten (.) hän jäi poron sarviin+kiinni*

S: *mmm*

C:

26) *ja poro (.) tiputti hänet lampeen*

27) *ja sitten (.) koira tippui hänen perässä*

28) *si:e:llä oli sammakko*

29) *ja sitten (.) he (.) nostivat sammakon ylös*

30) *ja veivät hänet hänen perheelleen*

31) *he sanoivat että hän voi ottaa yhden (.) sammakonpoikasista*

BEH hän katsoi reikään

REL joka oli puussa

MAT sieltä tuli pöllö

MAT ampiaiset jahtasivat koiraa

REL pöllö oli pojan yläpuolella

MAT hän kiipesi kivelle

REL siellä takana oli poro

REL hän jäi poron sarviin kiinni

MAT poro tiputti hänet lampeen

MAT koira tippui hänen perässä

REL si:e:llä oli sammakko

MAT he nostivat sammakon ylös

MAT he veivät hänet

VERB he sanoivat

MAT hän voi ottaa yhden sammakonpoikasista

Narrations 9-10/36

S:

are you wondering how how to start a story

yeah

mmm

how about ones upon a ti:me (.) there (.) was

C:

1) *there was first (.)a boy*

S: *yeah (.) that's good*

C:

2) *who found a frog*

S: *aah*

C:

3) *and then they put it (.) to a (.) glass (.) jar*

S: *hmm*

C:

4) *an' then the boy was looking at it*

5) *an' then the boy went to sleep*

6) *an' then (.) when they were sleeping*

7) *the fro:g (.) went out of the ja (.) glass (.) jar*

8) *an' the:n (.) when it was mo:rnin'*

9) *the boy looked at the glass jar*

10) *an' there was (.) no fro:g*

11) *so then (.) the boy went to look where it was*

REL there was a boy

REL who found a frog

MAT they put it to glass jar

BEH the boy was looking at it

MAT [the boy]1 went BEH Ø1 "slept"

BEH they were sleeping

MAT the frog went out of the glass jar

REL it was morning

BEH the boy looked at the glass jar

REL there was no frog

MAT [the boy]2 went MAT Ø2 "looked"

- 12) *a:n ten (.) they are looking (.)where could the do:g (.) the frog be*
 13) *an' then they looked (.) a- out of the window*
 14) *but then the (.) dog fell out of the window*
 15) *an' then the boy went also*
 16) *an' then (.) he was angry for the dog*
 17) *'cause he broke the (.) glass jar*
 18) *an' the:n (.) the boy went to look outsi:de (.) to the for:est*
 19) *an' then (.) a boy was looking (.)to the hole*
 20) *but there was no fro:g*
 21) *an' then the do:g was looking to the beehive*
 22) *an' then the beehive fell*
 23) *an' then (.) the boy looked on the tree*
 24) *a:n' instead of any fro:g (.)there came owel*
 25) *an' then the bees went (.) after the do:g*
 26) *and the dog ran away*
 27) *an' then the boy (.)went on a rock*
 28) *an' then he was sh (.) shouting (.) where would be the fro:g*
 29) *an' the:n (.) a deer came*
 30) *an' lifted the bo:y*
 31) *an' then h (.) the deer was (.) runnin'*
 32) *an' then (.) the boy an' the dog fell (.)to the water*
 33) *an' then (.)they looked up*
 34) *an' then they saw (.) a lo:g*
 35) *an' then theyh (.) an' then the dog was a little bit noisy*

S: mmm

C:

- 36) *an' then the boy said (.) be quiet*
 37) *an' then (.) they looked (.)on the nother side of the log*
 38) *and then they (.) found two fro:gs an' then (.) baby+frogs*
 39) *a:n' the:n (.) they took one baby fro:g*
 40) *an' then they went home an' said bye bye: (.)to the fro:gs*

C:

- 1) *eli (.) ekaksi (.) sielä oli poika ja koirra*
 2) *ja ne löysi (.)sammakon*
 3) *ja sitten+neh (.) pisti sen (.) kulhoon*
 4) *ja sitten (.) koska oli ilta niin ne meni nukkumaan*
 5) *ja sitten se (.) se sammakko (.) meni pois siitä kulhosta*
 6) *ja sitten kun+oli aamu (.) ne katsoi siihen (.) kulhoon*

REL where it was
 BEH they are looking
 REL where could the frog be
 BEH they looked out of the window
 MAT the dog fell out of the window
 MAT the boy went
 REL he was angry
 MAT he broke the glass jar
 MAT[the boy]3 went BEH Ø3 "looked"
 BEH a boy was looking
 REL there was no fro:g
 BEH the boy was looking
 MAT the beehive fell
 BEH the boy looked on the tree
 MAT there came owel
 MAT bees went after the dog
 MAT the dog ran away
 MAT the boy went on a rock
 VERB he was shouting
 MAT a deer came
 MAT lifted the boy
 MAT the deer was runnin'
 MAT the boy and the dog fell
 BEH they looked up
 MENT they saw a log
 REL the dog was a little bit noisy

VERB the boy said
 REL be quiet
 BEH looked on the other side
 REL they found two fro:gs
 MAT they took one baby fro:g
 MAT they went home
 VERB said bye bye to the fro:gs

REL siellä oli poika ja koirra
 REL ne löysi sammakon
 MAT neh pisti sen kulhoon
 REL oli ilta
 MAT [ne]1 meni BEH Ø1 "nukku"
 MAT sammakko meni pois
 REL oli aamu

- 7) *ja sitten siellä ei ollu yhtään sammakkoa*
 8) *niin (.) niin ne meni etsimään sitä sammakkoo*
 9) *ja sitten (.) ne etsi (.) ne etsi ekaks sen huo (.) sem+pojan huoneesta*
 10) *ja sitten ne katsoi (.) ulos ikkunasta*
 11) *mutta sitte se (.) koira putos ja rikkoi sen (.) kulhon*
- 12) *ja sitten se poika näh (.) oli vähän*
 13) *ja sitten (.) ne meni ulos metsään*
 14) *ja sitten ne huutoi että missä on se (.) sammakko*
- 15) *ja sitten+ne meni metsään*
 16) *ja sitten se poika katsoi maasta*
 17) *mutta siellä ei ollu mitään (.) sammakkoa*
 18) *ja sitten se koira katsoi (.) puusta*
 19) *ja sitten siellä ei ollu mitään sammakkoja*
 20) *ja sitten (.) siellä oli vaan (.) ampieisen koti*
 21) *ja sitten se putos (.) siitä (.) se maahan*
 22) *ja sitten+ne ampiaiset tuli pois*
 23) *ja sitte j jahtas sitä koiraa*
 24) *ja se poika katsoi sieltä (.) puusta (.) jos olis mitään (.) sammakkoita*
- 25) *mutta ei (.) mutta siellä ei ollu mitään sammakkoita*
 26) *mutta siellä oli (.) pöllö*
 27) *ja sit ne ampiaiset meni sen koi:ran perästä*
 28) *ja sitte (.) se pöllö (.) lensi pois*
 29) *ja sitten se poika (.) meni sen+kiven päältä*
 30) *ja sitte huut (.) huusi että missä ois se (.) sammakko:*
- 31) *ja sitten (.) ja sitten (.) sitten kun se ei nähnyt*
 32) *niin sitten (.) se (.) elä:in niin (.) se nosti sen pojan*
 33) *ja sitten se (.) meni juoksemaan*
 34) *ja sitten se pudotti sen pojan ja sen (.) koiran (.) lammikkoon*
 35) *ja sitte:n (.) ne katseli ylös ja sitten siellä oli (.) kaadettu puu*
- 36) *ja sitten (.) ne katsoi sen kaadetun p:uun toiselle puolelle*
 37) *ja sitten ne näkih (.) kaks (.) sammakkoo ja 'iitten laps(-)*
 38) *ja sitten ne (.) otti yhden sammakon ja sanoi heippa niille muille sammakoille*
- 39) *ja se oli loppu*

BEH ne katsoi siihen kulhoon
 REL siellä ei ollu yhtään sammakkoa
 MAT [ne]2 meni BEH Ø2 "etsi"
 BEH ne etsi
 BEH katsoi ulos
 MAT [koira]3 putos
 MAT Ø3 rikkoi
 -
 MAT ne meni ulos
 VERB ne huutoi
 REL missä on se sammakko
 MAT ne meni metsään
 BEH poika katsoi maasta
 REL siellä ei ollut mitään
 BEH koira katsoi puusta
 REL siellä ei ollu mitään sammakkoja
 REL siellä oli vaan ampieisen koti
 MAT se putos
 MAT [ampieiset]4 tuli pois
 MAT Ø4 jahtas koiraa
 BEH poika katsoi puusta
 REL jos olis mitään sammakkoita
 REL siellä ei ollu sammakkoita
 REL siellä oli pöllö
 MAT ampiaiset meni sen koi:ran perästä
 MAT pöllö lensi pois
 MAT [poika]5 meni sen kiven päältä
 VERB Ø5 huusi
 REL missä ois se sammakko:
 MENT se ei nähnyt
 MAT se eläin nosti sen pojan
 MAT [se]6 meni MAT Ø6 "juoksi"
 MAT se pudotti pojan ja koiran
 BEH ne katseli ylös
 REL siellä oli puu
 BEH ne katsoi
 MENT ne näki kaks sammakkoo
 MAT ne otti sammakon
 VERB sanoi heippa
 REL se oli loppu

Narrations 11-12/36

C:

1) *once upon a time there lived a little boy who had a frog: (.) in a (.) this kind+of jar*

REL there lived a boy
REL who had a frog

2) *when the boy was sleeping (.) the frog jumped away from the glass (.)jar*

BEH the boy was sleeping
MAT the frog jumped away
BEH the boy waked up
REL he didn't find his frog

3) *when the boy waked up he didn't find (.) his frog (.) in the jar*

4) *so they looked (.) under a shoe and he still looked from a jar and was there anything*

BEH they looked under a shoe
BEH he looked from a jar
REL was there anything
REL nowhere was nothing

5) *an' nowhere was nothing*

6) *lhen (.) a do (.) lhen the boy's dog w looked from the window but he fall and the jar went broke*

BEH the dog looked from the window
MAT he fall
REL the jar went broke
VERB they called the frog
MENT they didn't see a frog
REL there was a beehive
MAT the [dog]1 hopped
MENT Ø1 wanded MENT Ø1 "saw"
MAT the beehi' dropped
BEH started do buzz
MAT vhey flied
REL they didn't find nothing
-

7) *vhey called the frog but nowhere (.) they didn't see a frog*

8) *there was a (.) beehive*

9) *and a the dog um hopped and wanded to see the bees (.) but no*

10) *but vhen (.) the beehi' dropped an' then the bees (.) started (.) do buzz*

11) *and vhey flied towards the (.) the boy's dog*

12) *but they didn't find nothing*

13) *but vhen under a rock there was a hh hhh ts*

S: *are you wondering what the animal is called*

C:

14) *yes*

-

S: *I think it's a deer do you think it's a deer (.) yeah*

C:

15) *under a rock there was a deer*

16) *and he and the deer grabbed the boy (.) and the dog*

17) *an' it falled them (.) in (.) a lake*

18) *and vhey hearded something*

19) *thvey looked under a log:*

20) *and thlen they find two: frogs*

21) *that's maybe our frog*

22) *an'+dey find it*

REL under a rock there was a deer
MAT the deer grabbed the boy and the dog
MAT it falled [dropt] them in a lake
MENT vhey hearded something
BEH thvey looked under a log
REL they find two: frogs
REL that's our frog
REL dey find it

C:

- 1) yhden kerran (.) asui pieni sammakko yhden pojan luona (.) yhdessä lasi (.) hh lasi (.) lasipurkissa

BEH yhden kerran asui pieni sammakko yhden pojan luona

S: nii justii

C:

- 2) kun poika oli nukkumassa (.) sa (.) sammakko hyppäs lasipurkista pois

BEH poika oli nukkumassa

MAT sammakko hyppäs lasipurkista pois

- 3) ja kun+neh heräsi niin ei ollut mitään lasipurkissa

BEH neh heräsi

REL ei ollut mitään lasipurkissa

- 4) ne etsi joka paikasta (.) kengästä

BEH ne etsi joka paikasta

- 5) jah pojan koira kattoi lasipurkista oliks+sielä jotain

BEH koira kattoi lasipurkista

REL oliks+sielä jotain

- 6) mut ei ollut

REL ei ollu

- 7) poika kattoi ikkunasta ja myös (.) ja myös koira

BEH poika kattoi ikkunasta

- 8) ja koira putos ikkunasta

MAT koira putos ikkunasta

- 9) ja (.) lasi meni rikki

REL lasi meni rikki

- 10) poika huusi ja huusi mut ei mitään kuulunut

VERB poika huusi

REL ei mitään kuulunut

BEH ne kattoi joka kolosta

- 11) silloin ne kattoi joka kolosta ja jo (.) joka mehiläispesästä

- 12) mutta+kun koira hai (.) haukkui (.) niin+kovaa että (.) niitten pesä kaatui puusta

VERB koira haukkui

MAT niitten pesä kaatui

- 13) ja ne kattoi joka puolelta mut ei mitään

BEH ne kattoi joka puolelta

- 14) sitten mehiläiset kat (.) äm suuttuivat ja lensivät koiraan vastaan

BEH [mehiläiset]1 suuttuivat

MAT Ø1 lensivät koiraan vastaan

- 15) ja alkoivat pistää koiraan

MAT Ø 1 alkoivat pistää koiraan

- 16) ik (.) ja: poika kattoi kiven+alta

BEH poika kattoi kiven alta

- 17) ja sieltä löytyi hirvi

REL sieltä löytyi hirvi

- 18) hirvi vei pojan (.) ja koiran ja heitti ne (.) lampeen

MAT [hirvi]2 vei pojan ja koiran

MAT Ø 2 heitti ne lampeen

- 19) lammessa oli mutaista ja (.) vettä paljon

REL lammessa oli mutaista ja vettä paljon

- 20) niin+ne kuulivat ääntä

MENT ne kuulivat ääntä

- 21) ne näkivät (.) ja poika sano koiralle että ole hiljaa

VERB poika sano koiralle

REL ole hiljaa

BEH ne kattoi puun takaa

- 22) ja sitten+ne kattoi (.)hmm puun tak: (.) puun takaa

S: mmm

C:

- 23) ja sieltä löytyi tuttosammakko ja poikasammakko

REL sieltä löytyi tuttosammakko ja poikasammakko

S: hhmm

C:

- 24) ja pieniä sammakoita

-

- 25) ne löysi niitten+noman sammakon

REL ne löysi nitten+noman sammakon

- 26) ja ne lähtivät kotiin

MAT ne lähtivät kotiin

Narrations 13–14/36

C:

- | | |
|---|---|
| 1) <i>Once upon a time (.) i a boy had (.)a fro:g</i> | REL a boy had a fro:g |
| 2) <i>and h (.)when he went to sleep(.) the fro:g (.) the fro:g (.) climbet off</i> | MAT [he]1 went BEH Ø1 “ <u>slept</u> ”
MAT the fro:g climbet off |
| 3) <i>and when he woke up (.) wake (.) woke (.) up (.) then (.) he saw dat (.) in(.) in deh (.) can was no frog anymore</i> | BEH he woke up
MENT he saw
REL in deh can was no frog |
| 4) <i>so (.) he went to put his (.) clothe on</i> | MAT [he]2 went MAT Ø2 “ <u>put</u> ” his clothe on |
| 5) <i>an’ then (.) he was shouting (.) for his fro:g</i> | VERB he was shouting for his frog |
| 6) <i>and (.) den (.) his dog (.) falled (.) down</i> | MAT his dog falled down |
| 7) <i>’n den he was really angry (.) to him</i> | REL he was really angry |
| 8) <i>and then they were shouting for the (.) f: fro:g</i> | VERB they were shouting for the fro:g |
| 9) <i>an’ den all the beez de went to the hey (.) ey (.) the nest</i> | MAT the beez went to the nest |
| 10) <i>and then (.) they shouted to the hall</i> | VERB they shouted to the hall |
| 11) <i>an’ then (.) theh (.) and then some mouse (.) bited his nose</i> | MAT some mouse bited his nose |
| 12) <i>then (.) they went to a (.) then they climped to+a tree</i> | MAT climped to+a tree |
| 13) <i>and (.) the do:g was alzo trying (.) looking at the beez</i> | BEH the do:g was looking at the beez |
| 14) <i>den (.) he falled down</i> | MAT he falled down |
| 15) <i>and the beez war (.) following de do:g</i> | MAT the beez war following de do:g |
| 16) <i>den (.) ’cos the (.) ’cos the owl (.) was going to the boy’s (.)head</i> | MAT the owl was going to the boy’s head |
| 17) <i>he was trying to(.) hit</i> | MAT he was trying hit |
| 18) <i>and thenh (.) he was shouting again for the fro:g</i> | VERB he was shouting again |
| 19) <i>and denh (.) he went to the forest</i> | MAT he went to the forest |
| 20) <i>and den he found a (.) ah (.) peu (.) ra ‘deer’</i> | REL he found a peura ‘deer’ |

S: mmm

C:

- | | |
|--|---|
| 21) <i>and then (.)they we (.) den he climbed by accident on it</i> | MAT they climbed |
| 22) <i>because he was thinking that it was still the rock</i> | MENT he was thinking |
| 23) <i>’n+then (.) the peura was running against the do:g</i> | MAT the peura was running against the dog |
| 24) <i>denh (.) the peura dropst the boy(.) an’ de do:g to (.)a lampi ‘pond’</i> | MAT the peura dropst the boy an’ de do:g |
| 25) <i>thenh (.) they (.) followed to their back</i> | MAT they followed to their back |
| 26) <i>and then (.) they were laughing for a while</i> | BEH they were laughing |
| 27) <i>den they were (.) then they saw a tree what was falled</i> | MENT they saw a tree
REL what was falled [[was fallen]] |
| 28) <i>an’ thenh (.) he was quiet</i> | REL he was quiet |
| 29) <i>he was saying that be quiet (.) because let’s go (.) above that (.) tree (.) what was a(.) broken</i> | VERB he was saying
REL be quiet
MAT let’s go
REL what was broken |
| 30) <i>den(.) they climbed off</i> | MAT they climbed off |
| 31) <i>den they founded (.) the fro:gs</i> | REL they founded the fro:gs |
| 32) <i>and+den they founded (.) his family</i> | REL they founded his family |

33) *the:n he took (.) his fro:g back (.) an' sayed (.) said bye bye*

MAT [he]3 took his fro:g back
VERB Ø3 said bye bye

C:

1) *Olipa kerran poika jolla oli sammakko*

REL olipa kerran poika
REL jolla oli sammakko
BEH hän ihasteli sitä

2) *hän ihasteli sitä (.) hänen vesikannussaan*

3) *silloin kun hän lähti nu(.) nukkumaan niin silloin s(.) sammakko lähti (.) pois+siittä vesikannusta*

MAT [hän]1 lähti BEH Ø1 "nukkui"
MAT sammakko lähti pois vesikannusta
BEH poika heräsi

4) *sitten eräänä päivänä kun poika heräsi niin silloin (.) sammakko oli karonnu*

REL sammakko oli karonnu

5) *sitten (.) hän pani nopeesti vaatteet päälle ja lähti etsimään*

MAT[hän]2 pani vaatteet päälle
MAT Ø2 lähti BEH Ø2 "etsi"

6) *hän huusi ikkunasta (.) sammakko*

VERB hän huusi sammakko

7) *ennen+kun (.) koira putosi alas*

MAT koira putosi alas

8) *sitten hän oli oikean vihainen (.) oikein vihainen*

REL hän oli vihainen

9) *sitten (.) hän huusi (.) metsässä*

VERB hän huusi

10) *hän lähti metsään päin*

MAT hän lähti metsään päin

11) *hän huusi sammakkoaan*

VERB [hän]3 huusi sammakkoaan

12) *mutta ei löytäny*

REL Ø3 ei löytäny

13) *sitten (.) hän näki pienen kolon*

MENT hän näki kolon

14) *hän kurkisti sieltä*

BEH hän kurkisti sieltä

15) *siellä oli joku hiiri taih myyrä*

REL siellä oli joku hiiri

16) *ja sitten (.) se purasi vähän hänen nenää*

MAT se purasi vähän hänen nenää

17) *sittenh (.) poika kiipesi p(.) puusta ja huusi sinne koloon (.) ko (.) hänen sammakkoaan*

MAT [se poika]4 kiipesi puusta

VERB Ø 4 huusi koloon

18) *s sitte koirakin (.) yritti kiivetä (.) mutta mehiläiset si (.) seurasivat häntä koska (.) hän tiputti (.) öö (.) hän tiputti mehiläispesän*

MAT koirakin yritti kiivetä

MAT mehiläiset seurasivat häntä

MAT hän tiputti mehiläispesän

19) *ja (.) sitten (.) hän kaatui puusta (.) koska mehiläiset seurasivat koiraa (.) ja sitten (.) ja yrittivät pistää*

MAT hän kaatui puusta

MAT [mehiläiset]5 seurasivat koiraa

MAT Ø5 yrittivät pistää

20) *silloin (.) hän (.) silloin (.) poika näki pöllön*

MENT hän näki pöllön

21) *ja se (.) pöllö yritti (.) läpyttää hä(.) hänen siipiään ja sittel+lyödä (.) hänen päätä niillä*

MAT [se pöllö yritti]6 läpyttää siipiään

MAT Ø6 lyödä hänen päätä

22) *mutta hän pani käden nopeasti päähän*

MAT hän pani käden nopeasti päähän

23) *ja sitten kun hän kiipesi kiveen (.) niin silloin pöllö oli jo puussa*

MAT hän kiipesi kiveen

REL pöllö oli jo puussa

24) *mutta (.) hän luuli että nuo sarvet näytti vähän+niin+kun puilta mutta ei ollu*

MENT hän luuli

REL nuo sarvet näytti

REL Ø ei ollu Ø

S: mm hmm

25) *n se oli peura joka (.) joka oli (.) kiven takana*

26) *sitten (.) hän kiipesi vahingossa siihem puuhun mitä hän luuli mikä oli puu vaikka ei ollu*

27) *sitten hän kattoi oikein tarkasti ja mikä se oli*

28) *silloin hän vasta näki (.) se oli peura*

29) *sitten hän juoksi aa(.) pois*

30) *silloin hän juoksi (.) ja tiputti pojan alas (.) ja koiran*

31) *ne tippuivat lampeen*

32) *ja sitten (.) kun he tippuivat (.) niin silloin vähän ensi sattui mutta sitte nauratti*

33) *silloin he näkivät puun joka oli katkaistu (.) öö (.) sahalla*

34) *ja sitten (.) sitten (.) hän (.) ö (.) mietti jos he kiipesivät (.) sen yli*

35) *sitten (.) hän sanoi hiljaa kiivetään sieltä*

36) *ja (.) he (.) kiipesivät hipihiljaa*

37) *ja sitten he näkivät sa(.) äiti ja isäsammakon*

38) *sitten he näkivät (.) pienet vauvasammakot*

39) *ja (.) sitten hän lähti kotiin (.) ja otti hänen oman sammakon mukaan*

REL se oli peura

REL joka oli kiven takana

MAT hän kiipesi

MENT mitä hän luuli

REL mikä oli puu

REL Ø ei ollu Ø

BEH hän kattoi oikein tarkasti

REL mikä se oli

MENT hän näki

REL se oli peura

MAT hän juoksi pois

MAT [hän]7 juoksi

MAT Ø7 tiputti pojan alas

MAT ne tippuivat lampeen

MAT he tippuivat

MENT sattui

MENT nauratti

MENT he näkivät puun

REL joka oli katkaistu

MENT hän mietti

MAT he kiipesivät sen yli

VERB hän sanoi hiljaa

MAT kiivetään sieltä

MAT he kiipesivät

MENT he näkivät äiti ja isäsammakon

MENT he näkivät vauvasammakot

MAT [hän]8 lähti kotiin

MAT Ø8 otti hänen oman sammakon mukaan

Narrations 15–16/36

C:

1) *dat (.) the: (.) de (.) first there wa:s (.) a bo:y and dere was a dog*

2) *and de boy had in a (.) in a jar a frog*

3) *after dat it was night*

4) *the:n (.)de frog ascaped when de boy saw it he was he very sad*

5) *an' de (.) do:g put his head in de ca:n where de frog was had been and his get+stuck*

REL first there wa:s a bo:y

REL dere was a dog

REL a boy had in a jar a frog

REL it was night

BEH the frog ascaped

MENT the boy saw it

REL he was very sad

MAT the dog put his head in de ca:n

REL where the frog had been

REL his Ø get stuck

- 6) *den the dog fell out the window and de (.) jar broke*
- 7) *it was the boy's only jar an' de boy was very angry*
- 8) *an' den (.) dey went to the forest where there was a beehive*
- 9) *and de (.) de do:g was trying to climb de tree where there was a de beehive*
- 10) *a:n' de:n (.)de beehive dropped an' all the beez came after de dog*
- 11) *'n den (.)de boy was looking (--) in a hole on de tree*
- 12) *and (.) den dere came a bird out of it an' (.) starded going after de bo:y*
- 13) *and I didn't look anymore*

S: *you can check if you want to it's ok*

C:

- 14) *and den de boy hit a rock (.) and went on top of it*
- 15) *and (.) called for his do:g*
- 16) *an' den dere was (.) a moose who took him (.) the boy on his head*
- 17) *and den de (.) moose started running after the dog*
- 18) *and den (.) he ran to a bank ov+a river*
- 19) *and de (.) moose stopped and de boy and de dog (.) fell down in de river*
- 20) *den (.)dey fell on their head in the front*
- 21) *and den dere was a log in de river*
- 22) *dey climbed on it*
- 23) *'n' den (.) behind it (.) they found de boy's frog*
- 24) *'n' den dey (.) took the frog with them to the house*
- 25) *an' de end*

MAT the dog fell out the window
 REL de jar broke
 REL it was the boy's only jar
 REL the boy was very angry
 MAT dey went to the forest
 REL there was a beehive
 MAT the dog was trying to climb
 REL where there was de beehive
 MAT de beehive dropped
 MAT the beez came after de dog
 BEH de boy was looking
 MAT dere came a bird out of it
 MAT starded going after the dog
 -

MAT [de boy]1 hit a rock
 MAT Ø1 went on top of it
 VERB Ø1 called for his dog
 REL dere was a moose
 MAT who took the boy on his head
 MAT de moose started running
 MAT he ran
 MAT the moose stopped
 MAT de boy and de dog fell down
 MAT dey fell on their head in the front
 REL dere was a log in the river
 MAT dey climbed on it
 REL they found de boy's frog
 MAT they took the frog with them
 -V

C:

- 1) *ensiksi (.)oli kerran(.) päivä ja silloin pojalla oli purkissa sammakko (.)hänen kotonaan*
- 2) *koira katsoi sitä*
- 3) *ja sitten (.) yöllä kun he nukkuivat (.) sammakko pakeni*
- 4) *ja aamulla kun (.) poika huomasi sen (.) hän oli surullinen ja hämmästynyt*
- 5) *ja sitten (.) tota (.)no (.) poika puki päälleen kengät*
- 6) *ja (.) sillä välin (.) koira työnsi päätänsä sen n(.) kh (.) kuppiin*
- 7) *ja sitten (.) häne pää juuttui sinne ja hän putosi+ulos+ikkunasta*
- 8) *ja (.) n (.) lasi meni rikki*

REL oli kerran päivä
 REL pojalla oli purkissa sammakko
 BEH koira katsoi sitä
 BEH he nukkuivat
 BEH sammakko pakeni
 MENT poika huomasi sen
 REL hän oli surullinen ja hämmästynyt
 MAT poika puki päälleen kengät
 MAT koira työnsi päätänsä sen kuppiin
 REL häne pää juuttui sinne
 REL lasi meni rikki

- | | |
|--|---|
| 9) <i>ja poika oli vihanen koska se oli ainoa sen lasi</i> | REL poika oli vihanen |
| 10) <i>ja sitten (.) ne menivät metsään (.) jossa oli ampiaspesä</i> | REL se oli ainoa sen lasi
MAT ne menivät metsään
REL jossa oli ampiaspesä
MAT meni paljon ampiaisia
MAT koira yritti kiivetä puuhun
REL jossa ampiaspesä oli
MAT se heilui
MAT se putosi
MAT ampiaiset tulivat ulos
MAT alkoivat jahtaamaan koira
BEH poika katsoi koloon
MAT tuli lintu
MAT alkoi jahtaamaan häntä
MAT poika törmäsi kiveen
MAT hän meni kiven päälle
REL hän juuttui hirven sarviin
MAT hirvi juoksi
REL jonka alla oli joki
REL poika oli hänen päässään
MAT koira ja poika putosivat jokeen
MENT [he]1 näkivät puun joessa
BEH Ø1 katsoivat sen taakse
REL Ø1 löysivät pojan oman sammakon
MAT poika otti sen sammakon
REL joka oli hänen
-V |
| 11) <i>ja sit (.) johon meni paljon ampiaisia</i> | |
| 12) <i>koira yritti kiivetä puuhun jossa ampiaspesä oli</i> | |
| 13) <i>ja se heilui silloin</i> | |
| 14) <i>ja (.) sitten se putosi</i> | |
| 15) <i>ja kaikki ampiaiset tulivat ulos (.) ja alkoivat jahtaamaan koira</i> | |
| 16) <i>ja sillä välin (.) poika katsoi koloon yhdessä toisessa puussa</i> | |
| 17) <i>ja siel+tuli lintu joka alkoi jahtaamaan häntä (.) ja poika törmäsi kiveen</i> | |
| 18) <i>hän meni kiven päälle</i> | |
| 19) <i>ja sitten hän ju (.) juuttui hirven sarviin</i> | |
| 20) <i>hirvi juoksi (.)rotkoa kohti (.)jonka alla oli joki</i> | |
| 21) <i>kun poika oli hänen päässään ja (.) koira takaa</i> | |
| 22) <i>ja sitten koira ja poika putosivat jokeen (.) pää edellä</i> | |
| 23) <i>ja he näkivät puun joessa (.) ja katsoivat sen taakse</i> | |
| 24) <i>ja sitten (.)sel (.)löysivät (.) pojan oman sammakon ja sen koko perheen</i> | |
| 25) <i>ja sitten he ottivat (.) poika otti sen sammakon joka oli hänen takaisin hänen kotiinsa</i> | |
| 26) <i>ja sitten (.) sem+pituinen se</i> | |

Narrations 17–18/36

C:

- | | |
|--|---|
| 1) <i>I'm (.) I'm so borned</i> | REL I'm so borned [bored] |
| 2) <i>I (.) I want+to go outside</i> | MENT [I]1want MATØ1 "go" outside |
| 3) <i>and den (.) de fro:g came o(.) out of his (.) öömmm cup</i> | MAT the fro:g came out of his cup |
| 4) <i>and den he (.) he jump</i> | MAT he jump |
| 5) <i>and and de: (.) dog jump up (.) in the (.) up of the ee be:d</i> | MAT de dog jump up of the be:d |
| 6) <i>and den de boy (.) jump of the be:d</i> | MAT de boy jump of the be:d |
| 7) <i>and den de dog (.) öö get the ö(.) öö cup(.) in his hed</i> | REL de dog get the cup in his head |
| 8) <i>an'den de boy look +in the shoe</i> | BEH de boy look+in the shoe |
| 9) <i>an' then he put (.) looking+in (.) in de window</i> | BEH he looking+in de window |
| 10) <i>and then he (.) mmm (.) ööö s(.) s(.) say where is my fro:g where is my fro:g</i> | VERB he say
REL where is my fro:g
MAT the dog fall
MAT he braked the cup |
| 11) <i>an' then (.) the (.) the dog fall (.) an' he braked the cup</i> | |

12) <i>an' den de (.) boy jump(.) an' he have the shoes</i>	MAT the boy jump
13) <i>and then (.) he (---) say where 're you fro:g where 're you frog</i>	REL he have the shoes VERB he say REL where're you fro:g
14) <i>and den (.) he show he (.) his dog th show bumblebees</i>	BEH he show his dog th bumblebees
15) <i>an' den (.) the bumblebees (.) öö when the doog (.) say wuff wuff</i>	VERB the dog say wuff wuff
16) <i>den de (.) den de bumblebees get angry</i>	BEH the bumblebees get angry
17) <i>and den de de k (.) an' den de (.) öö the trees the bumblebees (.) öö de harm drop (.) down</i>	MAT the harm [[hive]] drop down
18) <i>an' den (.) den de boy is in de tree(.) look+in the hole</i>	REL de boy is in de tree BEH Ø look+in the hole
19) <i>an' he (.) does come ov: (.)öö (.)ov: aa: a bird</i>	-
20) <i>and den that get angry (.) an' (.) try to get+the boy</i>	REL [that]1 get angry REL Ø1 try to get+the boy
21) <i>an' then the boy get in+the (.) in to+a rock</i>	MAT the boy get in to+a rock
22) <i>an' then he (.) öö (.) s (.) said where 're you fro:g where 're you fro:g</i>	VERB he said REL where are you fro:g
23) <i>and he said (.) where 're you do:g where 're you do:g</i>	VERB he said REL where're you do:g
24) <i>and den (.) mmm (.)and an' den (.) öö what is dis a called</i>	-
S: <i>it's a deer</i>	
C:	
25) <i>deer</i>	
S: <i>yeah</i>	
C:	
26) <i>an' dat de deer come(.) an' take the boy in his head</i>	MAT [de deer]2 come MAT Ø2 take the boy in his head
27) <i>an' den he go</i>	MAT he go
28) <i>an' de boy: dropped</i>	MAT boy: dropped
29) <i>an' den he (.) go+in+de water an' plash</i>	MAT he go+in+de water
30) <i>he is in the water</i>	REL he is in the water
S: <i>hmm</i>	
C:	
31) <i>an then he come (.) in the tree</i>	MAT he come in the tree
32) <i>and him him look+in the tree</i>	BEH him look in the tree
33) <i>and he font (.) fro:gs</i>	REL he font [[found]] fro:gs
34) <i>an' he (.) öö (.) playing with the fro:gs</i>	BEH he playing with the fro:gs
35) <i>de: end</i>	-V

C:	
1) <i>poika oli tylsistynyt</i>	REL poika oli tylsistynyt
2) <i>se katteli sen sammakkoa</i>	BEH se katteli sen sammakkoa
3) <i>ja sitten se koiraki kattoi sammakkoa</i>	BEH sitten se koirakin kattoi sammakkoa
4) <i>sitten (.) sitten poika meni nukkuun</i>	MAT [poika]1 meni BEH Ø1 " <u>nukkuu</u> "

- 5) *ja sitte sammakko hyppäs ulos sen (.) ämpäristä*
- 6) *ja sitten (.) sitten se poika heräsi*
- 7) *ja 'itten näki että se sammakko olim (.) poissa*
- 8) *niin (.) että sitten se katto kenkään (.) ja kattoi ulos*
- 9) *ja sen koir(.)ja sitte se koiralle jäi jäi seen koiraan j(.)se koiraa jätti sen (.) sem (.) pää (.) jäi kuppiin kiinni*
- 10) *ja sitte poika katto ulos (.)ja huuteli (.) missä oot sammakko missä oot sammakko*
- 11) *ja 'itten (.) sitten ne(.) sitten se (.) koiraa hyppäs ekana*
- 12) *ja sitten se lasi meni rikki ja poika hyppäs seuraavana*
- 13) *ja otti sen+koiran syliä*
- 14) *ja sitte se huusi (.) missä oot sammakko missä oot sammakko*
- 15) *hitten (.) koiraa tönäsi puuta*
- 16) *sitten ampiaspesä tippu alas*
- 17) *ja sitten poika oli jo kiipeemässä puuhun*
- 18) *ja sitten (.) sieltä pu (.) puun puun+kolosta tipahti kai (.)nn (.) pöllö*
- 19) *ja sitten se koiraa juoksi jo pakoon ampiaisia*
- 20) *ja sitte poika kiipes (.) puuhun ja sitte ku se pöllö seuras sitä*
- 21) *ja sitte se jäi (.) jäi odotteleen puuhun*
- 22) *ja+hitten se näki hirven*
- 23) *ja sitte se hirvi kanto sitä*
- 24) *ja sitten sitten se poika tippu (.) ja splash*
- 25) *ja se oli siellä sen+koiran kaa märkänä*
- 26) *ja sitte (.) sitten+se kiipes kantol kannolle*
- 27) *sitten+ne näki sielä sammakkopoikasia*
- 28) *ja leikki niiden kaa*
- 29) *ja loppu*

MAT sammakko hyppäs ulos sen ämpäristä
 BEH [poika]2 heräsi
 MENT Ø2 näki
 REL sammakko olim poissa
 BEH se katto kenkään
 REL sem pää jäi kuppiin kiinni
 BEH [poika]3 katto ulos
 VERB Ø3 huuteli
 REL missä oot sammakko
 MAT koiraa hyppäs
 REL lasi meni rikki
 MAT poika hyppäs
 MAT otti sen koiran syliin
 VERB se huusi
 REL missä oot sammakko
 MAT koiraa tönäsi puuta
 MAT ampiaspesä tippu alas
 MAT poika oli jo kiipeemässä puuhun
 MAT puun kolosta tipahti pöllö
 MAT koiraa juoksi pakoon
 MAT poika kiipes puuhun
 MAT pöllö seuras sitä
 BEH se jäi odotteleen puuhun
 MENT se näki hirven
 MAT hirvi kanto sitä
 MAT se poika tippu
 REL se oli siellä sen koiran kaa märkänä
 MAT sitten se kiipes kannolle
 MENT [ne]4 näki siellä sammakkopoikasia
 BEH Ø4 leikki niiden kaa

-V

Narrations 19–20/36

S:

are you thinking about how to start a story

yeah

you could start for example by (.) once upon a time there was

who is in the story

C:		
	1) a boy	-
S:		
	yeah	
	an' you can just describe what's in the pictures	
C:		
	2) a frog	-
S: yeah		
C:		
	3) a dog	-
S: yeah		
C:		
	4) a bed	-
S:		
	a bed (.) yeah	
	so once upon a time there was a dog an' a frog an' a bed	
C:		
	5) an' a boy	-
S: yeah (.) an' what happened		
C:		
	6) the boy went to sleep	MAT[the boy]1 went BEH Ø1 " <u>slept</u> "
S: yeah		
C:		
	7) and then the frog (.)went out of the cup	MAT the frog went out of the cup
S: oh ok		
C:		
	8) and then the boy wa (.) woke up	BEH the boy woke up
S:		
	mmm	
	what happened next	
C:		
	9) an then (.) the dog put (.)his head in the cup	MAT the dog put his head in the cup
S: oh		
C:		
	10) the boy (.)found some shoes	REL the boy found shoes
S: ahaa		
C:		
	11) and they (.) then they looked outside	BEH they looked outside
S: oh		
C:		
	12) and then the dog fell	MAT the dog fell
S: oh		
C:		
	13) and then(.) um the cup broke	REL the cup broke
	14) and then (.) they were outside	REL they were outside

15) <i>then (.)the dog saw a (.) beehive</i>	MENT the dog saw a beehive
16) <i>and then the beehive (.) fell down</i>	MAT the beehive fell down
S: <i>it did ah</i>	
C:	
17) <i>and then the boy was in a tree</i>	REL the boy was in a tree
18) <i>ow (.) the owl came out of the tree</i>	MAT the owl came out of the tree
19) <i>and then (.) all the bees were following the do:g</i>	MAT the bees were following the do:g
S: <i>oh poor dog</i>	
C:	
20) <i>and then the (.) boy (.)found a big rock</i>	REL the boy found a big rock
21) <i>and then the owl (.)went (.)flew to a tree</i>	MAT the owl flew to a tree
22) <i>and then (.) there came (.) aa</i>	-
23) <i>then the dog and the boy</i>	-
24) <i>the dog ran and the boy was (.)on something</i>	MAT the dog ran
	REL the boy was on something
S: <i>mmm</i>	
C:	
25) <i>and they both fell (.) to water</i>	MAT they both fell
26) <i>and they (.) then they found a big (.) um tree</i>	REL they found a big tree
27) <i>and behind the tree there was fro frogs</i>	REL there was frogs
28) <i>and then all the f frogs but one um (.)was on the ground</i>	REL all the frogs but one was on the ground
29) <i>all ov+the others went um (.) on the tree</i>	MAT the others went on the tree
30) <i>and then the (.)bog and the boy went (.) um</i>	-
31) <i>the boy had one frog</i>	REL the boy had one frog
32) <i>an' then (.) and then it (.) they went home</i>	MAT they went home

C:	
1) <i>olipa kerran poika ja koira ja sitte (.) myös aam (.) toi: sammakko</i>	REL olipa kerran poika ja koira
S: <i>mmm</i>	
C:	
2) <i>sitte ku se poika meni nukkumaa ja sitte (.) sammakko tuli sen purkista pois</i>	MAT [poika]1 meni BEH Ø 1 " <u>nukku</u> "
	MAT sammakko tuli sen purkista pois
3) <i>ja sitte se poika heräs aamulla ja se löys eh tota (.) sen purkin tyhjänä</i>	BEH se poika heräs aamulla
	REL se löys purkin tyhjänä
4) <i>ja hh (.) se löys kengä (.) sen kengät</i>	REL se löys sen kengät
5) <i>ja sitte(.) se koira laitto (.) sen naaman siihen purkkiin</i>	MAT se koira laitto sen naaman purkkiin
6) <i>ja sitte koira (.) se koira am putos</i>	MAT se koira putos
7) <i>ja sitten (.) aah (.) ja sitte (.) se poika pomppas ulos ikkunasta</i>	MAT se poika pomppas ulos ikkunasta
8) <i>ja sitteh (.) n ne oli ulkona</i>	REL ne oli ulkona
9) <i>ja sitte (.) se koira näki am (.) aah (.) ampiaispesän</i>	MENT se koira näki ampiaispesän
10) <i>ja sitte se ampiaispesä putos</i>	MAT se ampiaispesä putos

- 11) *ja se poika oli puu:ssa*
12) *ja sitte sem+puun sisältä tuli (.)am (.) pöllö ja (.) se poika kaatu*

- 13) *ja sitte kaikki ampieiset (.) lens tota se koiram+perää*
14) *sitte se poika (.) näki ison kiven*
15) *ja sitte (.) am (.) tuli pöllö (.) ja sen lens puuhu*

- 16) *ja sitte (.) sitten se poika jäi tota hirven päähän*
17) *ja sitte se koita juoksi (.) sitä karkuun*
18) *ja sitte ne molemmat putos (.) järveen*

S: *mmm*

C:

- 19) *sitte siellä oli (.) toi (.) puu (.) kaatunu+puu*
20) *ja sitte sen takana oli sammakkoja*
21) *ja sitte (.) se poika lähti yhen (.)pikku (.)sammakon+kaa*
22) *ja mm yks on maassa ja muut oli (.) siinä puulla*

REL poika oli puussa

MAT sem+puun sisältä tuli pöllö
MAT se poika kaatu
MAT kaikki ampieiset lens koiran perään
MENT poika näki kiven
MAT tuli pöllö
MAT sen lens puuhu
REL se poika jäi hirven päähän
MAT koira juoksi karkuun
MAT molemmat putos järveen

REL siellä oli puu
REL sen takana oli sammakkoja
MAT se poika lähti yhen sammakon+kaa
REL yks on maassa
REL muut oli siinä puulla

Narrations 21–22/36

S:

are you thinking about how to start a story
you can start for example (.) once upon a time there was
a boy and (.) who else is in there

C:

- 1) *a dog*

S:

yeah
is there someone else as well
ok at least a dog and a boy
and what happens in the next picture

C:

- 2) *the frog comes (.) out of a jar*

S: *oh he does*

C:

- 3) *and when the boy and the dog (.) wakes up (.) the boy sees the frog isn't in the jar anymore*

S: *oh*

C:

- 4) *and the boy looks in a shoe*

S: *mmm*

MAT the frog comes out of a jar

BEH when the boy and the dog wakes up
MENT the boy sees
REL the frog isn't in the jar anymore

BEH the boy looks in a shoe

C:	
5)	<i>and vhey look out of the window</i>
S:	<i>yeah</i>
C:	
6)	<i>and the (.) dog drops (.) out of the window (.) mmh</i>
S:	<i>what happens next</i>
C:	
7)	<i>the boy yells (.) um (.) fro:g a:re you here</i>
S:	<i>oh</i>
C:	
8)	<i>an' he (.) looks in a hole</i>
9)	<i>an' vhen (.) a lot of bees come out of a bee's nest</i>
S:	<i>oh</i>
C:	
10)	<i>and the boy climbs in a tree</i>
11)	<i>and the boy drops down from the tree</i>
S:	<i>ouch</i>
C:	
12)	<i>and the boy steps on a rock</i>
S:	<i>mmm</i>
C:	
13)	<i>and vhen he climbs on the rock</i>
S:	
	<i>what's happening there</i>
	<i>are you wondering what that animal is called</i>
C:	
14)	<i>yes</i>
S:	<i>yeah (.) I think it's a deer</i>
C:	
15)	<i>and the deer takes the boy away</i>
S:	<i>yeah</i>
C:	
16)	<i>and he drops the boy and the dog into (.) water</i>
17)	<i>and the deer smiles and um the boy is hearing something</i>
S:	<i>yeah</i>
C:	
18)	<i>then he goes like shhh</i>
S:	<i>yeah</i>
C:	
19)	<i>and vhen vhey climb over tree trunk</i>
20)	<i>and (.) see two fro:gs</i>
21)	<i>and vhen vhey see more frogs</i>

BEH vhey look out the window

MAT the dog drops out of the window

VERB the boy yells
REL frog are you here

BEH he looks in a hole
MAT a lot of bees come out

MAT the boy climbs in a tree
MAT the boy drops down from the tree

MAT the boy steps on a rock

MAT he climbs on the rock

-

MAT the deer takes the boy away

MAT he drops the boy and the dog into water
BEH the deer smiles
MENT the boy is hearing something

BEH he goes like shhh

MAT [vhey]1 climb over tree trunk
MENT Ø1 see two fro:gs
MENT vhey see more frogs

- 22) *an' vhen vhey take one frog*
 23) *an' (.) vhey say bye bye*
 24) *an' vhen it's done*

MAT vhey take one frog
 VERB vhey say bye bye
 REL vhen it's done

C:

- 1) *yhden kerran (.) oli poika ja koira (.) joilla oli sammakko*

REL yhden kerran oli poika ja koira
 REL joilla oli sammakko

S: *mmm*

C:

- 2) *ja kun poika ja koira meni nukkumaan sammakko (.) öm öm katosi*
 3) *ja sittek+kun poika ja koira heräsi (.) ne ihmetteli mihin sammakko oli hävinnyt*
 4) *ja poika kattoi kengästä*
 5) *ja sitten ne avasi ikkunan*
 6) *ja koira tippui ulos ikkunasta*
 7) *ja sitten poika sanoi (.) tuhma koi:la*
 8) *ja sitten ne huusi (.)oletko täällä sammakko*
 9) *j' sitten poika kattoi kolosta*
 10) *ja sitten poika (.) kiipesi puuhun*
 11) *sitten poika tippui pois puusta*
 12) *ja poika astui kivem+päälle*
 13) *ja sitten kiipesi kivem+päälle*
 14) *peura otti hänet (.) ja tiputti hänet veteen*
 15) *ja poika kuuli jotain*
 16) *ja sitten hän meni hänen koiralle (.) shhh*
 17) *ja ne (.) kiipesi puunrungon yli (.) yli*
 18) *ne näki kaksi sammakkoa*
 19) *ja sitten ne näki lisää sammakkoja*
 20) *ja ne otti (.) öm yhden sammakon ja sanoi (.) heippa*

MAT [poika ja koira]1 meni BEH Ø 1 "nukku"
 REL sammakko katosi
 BEH poika ja koira heräsi
 BEH ne ihmetteli
 REL sammakko oli hävinnyt
 BEH poika kattoi kengästä
 MAT sitten ne avasi ikkunan
 MAT koira tippui ulos ikkunasta
 VERB poika sanoi tuhma koi:la
 VERB ne huusi
 REL oletko täällä sammakko
 BEH poika kattoi kolosta
 MAT poika kiipesi puuhun
 MAT poika tippui pois puusta
 MAT [poika]2 astui kivem+päälle
 MAT Ø2 kiipesi kivem+päälle
 MAT[peura]3 otti hänet
 MAT Ø3 tiputti hänet veteen
 MENT poika kuuli jotain
 BEH hän meni hänen koiralle shhh
 MAT ne kiipesi puunrungon yli
 MENT ne näki kaksi sammakkoa
 MENT ne näki lisää sammakkoja
 MAT [ne]4 otti yhden sammakon
 VERB Ø4 sanoi heippa

Narrations 23-24/36

C:

- 1) *I dunno how to start it*

S:

oh how to start it

*do you wanna start for example like once upon a time there was
 is that helpful*

C:

2) *yes*

S: *yeah*

C:

3) *once upon a time there was a fro:g*

4) *an: (.) an: (.) there er (.) an: an: there was a child who had a dog an' a fro:g*

REL there was a fro:g

REL there was a child

REL who had a dog an' a fro:g

S: *oh that's good*

C:

5) *an: (.) vhe do:g (.) an' the child were going to sleep*

MAT [vhe dog an' the child]1 were going BEH Ø1

"slept"

BEH vhe frog slept

6) *then vhe frog slept in a (.) jar*

7) *when vhe (.) child and the (.) do:g were at sleep an' the fro:g (.) sneak out of the j ts ja jar*

BEH vhe child and the do:g were at sleep

MAT the fro:g sneak out of the jar

8) *an' when+ni' was morning an' the child and do:g (.) w waked up an' they saw that the jar was empty*

REL ni' was morning

BEH the child and dog waked up

MENT they saw

REL the jar was empty

9) *when vhe do:g looked (.) in: vhe: jar an' vhe (.) child in his boots*

10) *when vhey looked at the window and tried to call him*

BEH vhe do:g looked in vhe: jar

BEH [vhey]2 looked in the window

VERB Ø2 tried to call him

11) *when vhe do:g fell from vhe window*

12) *and he had vhe (.) jar on his head that was stuck when he fell*

MAT vhe do:g fell from vhe window

REL he had vhe jar on his head

MAT he fell

13) *and de jar broke*

14) *when de child (.) came down (.) an' was a little angry:*

REL de jar broke

MAT [de child]3 came down

REL Ø3 was a little angry:

15) *when vhey tried to (.) shout for it*

16) *but vhey couldn't find it*

17) *when the do:g saw pih (.) ee beez*

18) *so he went to: a (.) tree vhat were (.) vhat w vhat had de beez: house*

VERB vhey tried to shout for it

REL vhey couldn't find it

MENT the dog saw beez

MAT he went to: a tree

REL vhat had de beez: house

19) *an' vhe child (.) looked in a hole*

20) *an' somefing smelled in it*

21) *so an' the fro:g wasn't vhere*

22) *an' the do:g looked at b(.) beez' house*

23) *and vhere was nothing in de beez' house*

24) *when he tried to shake it*

25) *and vhen vhe beez' house dropped*

26) *an' vhe child looked in (.) a hole in a tree*

27) *an' (.) vhere came an (.) an' there was a owl*

28) *an' vhen the beez tried to catch vhe do:g*

29) *vhen: vhe child (.) mm (.) climbed on a rock*

BEH vhe child looked in a hole

REL somefing smelled in it

REL the fro:g wasn't vhere

BEH the do:g looked at beez' house

REL vhere was nothing in de beez' house

MAT he tried to shake it

MAT vhe beez' house dropped

BEH vhe child looked in a hole

REL there was a owl

MAT the beez tried to catch vhe do:g

MAT vhe child climbed on a rock

30) *and (.) he tried to shout for him but he was (.) holdin' a deer's (.) antlers*

31) *so a deer (.) put his head up*

32) *an' vhe child was on top of his head*

33) *vhen vhe deer (.) carried (.) vhe child (.) on to:: a (.) on to like a riverbank*

34) *an' vhe do:g was in fron' ov a deer*

35) *so both (.) so vhe deer an' vhe child dropped in: a p (.) in a puddle*

S: yeah

C:

36) *vhen vhey (.) e vhen vhey dropped in da puddle*

37) *an' vhey heared a like a frog 's+sound*

38) *vhen vhey looked behind vhe lo:g*

39) *an' (.) vhen vhey saw (.) two fro:gs two fro:gs (.) a mommy an' a daddy*

40) *an' vhen (.) lots of (.) baby frogs*

41) *so a child an' fro:g went back home an' took one of the baby fro:gs ho with vhem*

42) *vhe:e end*

C:

1) *olipa kerran (.) sammakko (.) ja lapsi ja koira*

2) *ja sillä lapsella oli koira ja (.)sammakko*

3) *ja ne oli kohta menossa nukkumaan*

4) *ja oli ilta*

5) *sitten+ne meni nukkumaan*

6) *ja samma ja se sammakko hiippaili (.) pois sieltä purkista ulos talosta*

7) *sitten (.) öm (.) lapsi ja koira heräs ja huomasi että oli tyhjä (.) purkki*

S: mm

C:

8) *sitten lapsi (.) se lapsi kattoi sen saappaasta ja koira purkista*

9) *sitten ne meni huutaa ikkunasta*

10) *ja sitte se koira tippu pois siitä ikkunasta ja hajotti sen purkin*

11) *ja sitte lapsikin tuli alas (.) ja oli vähä (.) oli vähän vihainen sille koiralle*

12) *sitten+ne huuteli sitä*

13) *ja koira haistoi ampaisii ja*

14) *sitte koira meni kattoo ampaisem+pesästä*

15) *ja se heilutti sitä puuta*

16) *ja sitte lapsi kattoi (.)kolosta (.) ja sieltä löytyi (.) joku eläin mikä ei ollu sammakko*

17) *sitten (.) ampaisien pesä tippui*

VERB he tried to shout for him

MAT he was holding a deer's antlers

MAT a deer put his head up

REL vhe child was on top of his head

MAT vhe deer carried vhe child

REL vhe do:g was in fron' ov a deer

MAT vhe deer an' vhe child dropped in a puddle

-

MENT vhey heared like a frog's+sound

BEH vhey looked behind vhe lo:g

MENT vhen vhey saw two fro:gs

-V

MAT a child an' fro:g went back home

MAT took one of the baby fro:gs with vhem

-V

REL olipa kerran sammakko ja lapsi ja koira

REL lapsella oli koira ja sammakko

MAT [ne]1 oli menossa BEH Ø1 "nukku"

REL oli ilta

MAT [ne]2 meni BEH Ø2 "nukku"

MAT sammakko hiippaili pois

BEH[lapsi ja koira]3 heräs

MENT Ø3 huomasi

REL oli tyhjä purkki

BEH se lapsi kattoi sen saappaasta

MAT [ne]4 meni VERB Ø4 "huusi" ikkunasta

MAT [koira]5 tippu pois

MAT Ø5 hajotti sen purkin

MAT [lapsikin]6 tuli alas

REL Ø6 oli vähän vihainen

VERB ne huuteli sitä

BEH koira haistoi ampaisii

MAT [koira]7 meni BEH Ø7 "katto"

MAT se heilutti sitä puuta

BEH lapsi kattoi kolosta

REL sieltä löytyi joku eläin

REL mikä ei ollu sammakko

MAT ampaisen pesä tippui

- 18) *ja koi (.) ja sit (.) ja samalla (.) lapsi ihmetteli*
 19) *lapsi kattoi (.) puussa olevaar+reikää (.) että oliko siellä*
 20) *niin siellä oli pöllö*
 21) *ja samalla (.) ampieiset (.) oli jahtaamassa (.) koiraa*
 22) *sitten (.) lapsi meni kattoo (.) kivem+päältä ja huusi*
 23) *samalla se (.) piti (.) mm poron (.) sarvista*
 24) *ja sitte se poro (.) tunki pään ylös*
 25) *ja se lähti viemään sitä: (.) lätäkköön*
 26) *sit se tiputtu koiran ja lapsen sinne*
 27) *sitte ne tippu sinne*
 28) *samalla (.) ne kuuli (.) sammakkojen äänee (.) om puun takaa mikä oli kaatunu*
 29) *sitte ne meni kattoo ja sieltä löyty (.) yks äiti ja isä sammakko (.) ja sitte monta pientä sammakkoo*
 30) *sitten ne lähti kotiin ja ne otti yhden niistä mikä oli niitten oma (.) niin ne otti sen mukaan*
 31) *loppu*
- MENT lapsi ihmetteli
 BEH lapsi kattoi puussa olevaar+reikää
 REL oliko siellä Ø
 REL siellä oli pöllö
 MAT ampieiset oli jahtaamassa koiraa
 MAT [lapsi]8 meni BEH Ø8 "katto"
 VERB Ø8 huusi
 MAT se piti poron sarvista
 MAT poro tunki pään ylös
 MAT [se]9 lähti MAT Ø9 "vei"
 MAT se tiputti
 MAT ne tippu sinne
 MENT ne kuuli sammakkojen äänee
 MAT mikä oli kaatunu
 MAT [ne]8 meni BEH Ø8 "katto"
 REL sieltä löyty yks äiti ja isä sammakko
 MAT ne lähti kotiin
 MAT ne otti yhden niistä
 REL mikä oli niitten oma
 MAT ne otti sen mukaan
 -V

Narrations 25–26/36

- C:
 1) *once upon a time (.) there wa:z a bo:y*
 S: *yeah*
 C:
 2) *with a do:g*
 3) *and de boy ha (.) had a fro:g*
 S: *good*
 C:
 4) *a:nd de do:g always looked at it*
 5) *a:nd (.) de next day (.) de frog went out*
 6) *and de dog went after+rit*
 7) *an:d catch the fro:g*
 8) *an:d de:n (.) de:h (.) do:g s went to deh ee (.) to de boy dat de fro:g is out of de can*
 9) *an:d den de dog found it*
 10) *an:d den: (.) de: frog was in a hole*
 11) *an:d (.) there were some bees very close*
 12) *an:d (.) den dey ran away*
- REL there was a boy
 -V
 REL the boy had a fro:g
 BEH de do:g looked at it
 MAT the frog went out
 MAT de dog went after+rit
 MAT catch the fro:g
 MAT de:h do:g went to de boy
 REL de fro:g is out of the can
 REL de frog found it
 REL de: frog was in a hole
 REL there were some bees Tässä
 MAT dey ran away

- | | |
|--|------------------------------------|
| 13) <i>an:' (.) one bird came</i> | MAT [one bird]1 came |
| 14) <i>an' hided</i> | MAT Ø1 hided |
| 15) <i>an' then it came out</i> | MAT it came out |
| 16) <i>an' den a deer took de boy to de (.) his home</i> | MAT a deer took de boy to his home |
| 17) <i>but den he (.) he pushed dem out of de hi:ll</i> | MAT he pushed dem out of de hi:ll |

S: mmm

C:

- | | |
|---|--------------------------------|
| 18) <i>an+dey fell in+de water</i> | MAT dey fell in+de water |
| 19) <i>an:d den de boy went home</i> | MAT de boy went home |
| 20) <i>and den (.) de fro:g w was already with a friend (.) in deh forest</i> | REL de fro:g was with a friend |
| 21) <i>an+den dere was (.) was many fro:gs</i> | REL dere was many fro:gs |
| 22) <i>and dat's d+end</i> | REL dat's d+end |

C:

- | | |
|---|-------------------------|
| 1) <i>olipa kerran poika (.) millä oli yks (.) öö koira</i> | REL olipa kerran poika |
| 2) <i>ja: yks vielä toi: rapu</i> | REL millä oli yks koira |
| | -V |

S: mm hmm

C:

- | | |
|--|--|
| 3) <i>ja: sitte se rapu: (.) halus ottaa sen+koiran kiinni</i> | MENT [se rapu]1 halus MAT Ø1 " <u>otti</u> " sen koiran kiinni |
| 4) <i>ja sitten: (.) se koira meni (.) sitten pakoon</i> | MAT se koira meni pakoon |
| 5) <i>ja se hyppäs poikam+päälle</i> | MAT se hyppäs poikam+päälle |
| 6) <i>ja sitten (.) joku oli piilossa (.) jossakin kolossa</i> | REL joku oli piilossa |
| 7) <i>ja sitte se kyppäs ulos</i> | MAT se kyppäs [[hyppäsi]] ulos |

S: mmm

C:

- | | |
|---|---|
| 8) <i>ja se oli sellanen (.) ee emmä+tiedä mikä se on</i> | - |
|---|---|

S: sä voit mennä eteenpäin jos haluat

C:

- | | |
|---|--|
| 9) <i>ja sitten mehiläisiä tuli</i> | MAT mehiläisiä tuli |
| 10) <i>ja sitte+joku eläin tuli pelastaan</i> | MAT [joku eläin]2 tuli BEH Ø2 " <u>pelasti</u> " |
| 11) <i>ja sitten:h (.) tuli karhu</i> | MAT tuli karhu |
| 12) <i>ja sitten (.) se työnsi n niitä vetee</i> | MAT se työnsi niitä vetee |
| 13) <i>ja sitte:n ne meni pois+siittä vedestä:</i> | MAT ne meni pois |
| 14) <i>ja sitten (.) sielä oli paljon sammakoita</i> | REL sielä oli paljon sammakoita |
| 15) <i>ja: sittenh (.) se koira ja se poika leikki niiden kaa</i> | BEH se koira ja se poika leikki niiden kaa |
| 16) <i>ja se+on se loppu</i> | REL se+on se loppu |

Narrations 27–28/36

C:

1) *the boy was sleeping*

BEH the boy was sleeping

S: yeah

C:

2) *an' then (.) the frong jumped out of the bucket*

MAT the frog jumped out of the bucket

3) *and de (.) an' the boy (.) when he waked up at the morning he didn't saw (.) the w (.) the frog at the bucket*

BEH he waked up

MENT he didn't saw the frog

S: mmhmm

C:

4) *so he looks (.) from the shoe (.) there was no frog*

BEH he looks from the shoe

REL there was no frog

5) *and then he (.) and doggy (.) an' dog went inside the (.) frog+bowl*

MAT dog went inside

6) *and then (.) he(.) his head got stucked in+there*

REL his head got stuck

7) *and the boy ee (.) called the frog*

VERB the boy called the frog

8) *and den (.) the dog (.) the dog did (--) into the (--)*

-

9) *but then (.) the bowl did broke and the boy was angry (.) to dog*

REL the bowl did broke

REL the boy was angry

10) *and den they went to the forest but (.) they (.) the boy called the frog but (.) he didn't (.) see the frog so*

MAT they went to the forest

VERB the boy called the frog

VERB the boy called it

11) *then he called it from the hole there came*

MAT there came an animal

12) *there came an animal from the hole*

13) *den de dog (.) wanted to get some honey but*

MENT [the dog]1 wanted REL Ø1 "got" honey

14) *but the dog w (.) the boy was concentrating (.) with (.) the boy was concentrating to find the frog*

MENT[the boy]2 was concentrating REL Ø2 "finding"

15) *the boy looked from the hole (.) from the tree+hole (.) but there was no frog in dere*

BEH the boy looked from the hole

REL there was no frog in dere

16) *an' agg accidentally dog ee (.) joped (.) jropt de(.) honey de (.) h beehive*

MAT the dog jropt [[dropped]] de beehive

17) *an' den de bee (.) followed him (.) then all the bees followed him*

MAT all the bees followed him

18) *thenh (.) the boy fell down and the (.) owl came too*

MAT the boy fell down

MAT the owl came too

19) *then the boy walled*

MAT the boy walled [[fell]]

20) *and the owl came*

MAT the owl came

21) *then the (.) boy was so sad because he didn't find the frog*

REL the boy was sad

REL he didn't find the frog

MAT he jumped into a reindeer

22) *so he (.) he jumped into a reindeer*

-

23) *and den the reindeer did go (--) to jump over the hill*

MAT the boy was falling down

24) *and den the boy was falling down to the (.) pond (.) to the big pond*

MAT the reindeer did stop

25) *but the reindeer did stop (--)*

26) *and then splash*

-V

27) *they were find (.) wasn't so deep*

REL they were find [[fine]]

- 28) *de boy said to dog shhh*
 29) *and den (.) they was looking through the tree*
 30) *then he found (.) frog (.) baby frogs and mommy an' daddy frog*
 31) *and they said bye bye*
 32) *de boy said bye bye to the family frogs*
 33) *the: end*

REL Ø wasn't so deep
 VERB de boy said to dog
 BEH they was looking through the tree
 REL he found baby frogs
 VERB they said bye bye
 VERB de boy said bye bye to the family frogs
 -V

C:

- 1) *kum+poika oli nukkumassa (.) illalla niin (.) se sammakko hyppäsi (.) kupistaan*
 2) *niin sitten eräänä päivänä (.) kun (.) poika heräsi (.) ei siellä ollu toi (.) ei ollu (.) sammakkoo kupissa*
 3) *niin (.) se kattoi kenkästä ei ollu (.) sammakkoo ei ollu*
 4) *ja sitten (.) sitten se katto (.) sitten koira meni ää pulloon sitten (.) se sen pää jäi pulloon*
 5) *sitten poikah kysyi että m (.) sitten nn*
 6) *sitten koira tippui ja lasi meni rikki*
 7) *niin (.) poika oli suuttuva koiralle*
 8) *niin ne meni metsään ja metsään sitten+ne ei löytänyt*
 9) *niin koira näki noi*
 10) *niin (.) se poika (.) se poika (.) toi (.) teki reikän lattialle ja ei ollu mikään*
 11) *tuli eläin sieltä*
 12) *niin koira näki (.) ampiaisenpesän*
 13) *sitten se halusi hunajaa niin (.) vahinkossa se (.) vanhinkossa se tiputti he mehiläinen (.) koti (.) mehiläinen (.) mehiläinenkoti*

BEH poika oli nukkumassa
 MAT sammakko hyppäsi
 BEH poika heräsi
 REL ei ollu sammakko kupissa
 BEH se kattoi kenkästä
 REL sammakkoo ei ollu
 BEH sitten se katto
 MAT koira meni pulloon
 REL sen pää jäi pulloon
 -
 MAT koira tippui
 REL lasi meni rikki
 REL poika oli suuttuva [[vihainen]] koiralle
 MAT ne meni metsään
 REL ne ei löytänyt
 BEH koira näki noi
 MAT se poika teki reikän lattialle
 MAT tuli eläin sieltä
 MENT koira näki ampiaisenpesän
 MENT se halusi hunajaa
 MAT se tiputti mehiläinenkoti

S: mmm

C:

- 14) *niin (.) poika meni leikkiin sitten se (.) ei siellä ollu mikään sammakkoa*
 15) *niin siitä tuli pöllö niin se pöllö pelästyi ja poika*
 16) *ja ampiaiset meni koiran perään*
 17) *ja pöllö tuli perään poika (.) sitte se lopetti*
 18) *niin (.) siellä oli (.) mikä se oli*
 19) *hirvi*

MAT [poika]1 meni BEH Ø1 "leikki"
 MAT siitä tuli pöllö
 BEH pöllö pelästyi
 MAT ampiaiset meni koiran perään
 MAT pöllö tuli perään
 MAT sitte se lopetti
 -
 -

S: joo

C:

20) <i>siellä oli hirvi</i>	REL <i>siellä oli hirvi</i>
21) <i>ja se kaatui päälle</i>	MAT <i>se kaatui päälle</i>
22) <i>sitten hirvi meni (.) eteenpäin</i>	MAT <i>hirvi meni eteenpäin</i>
23) <i>ja siellä oli (.) reikä</i>	REL <i>siellä oli reikä</i>
24) <i>niin se poika tippui (.) sinne(.) veteen</i>	MAT <i>poika tippui sinne veteen</i>
25) <i>sit (.) sitten e (.) ne oli (.) ne oli (.) kunnossa</i>	REL <i>ne oli kunnossa</i>
26) <i>niin ne (--) (.) niin koira sano (.) poika sanoi koiralle että (.) hiljaa (.) tuolla on sammakoita</i>	VERB <i>poika sano koiralle että hiljaa</i>
	REL <i>tuolla on sammakoita</i>
27) <i>sitten ne löysi (.) ne sammakot</i>	REL <i>ne löysi</i>
28) <i>sitten näi äiti ja isä</i>	-
29) <i>tuolla oli vauvat</i>	REL <i>tuolla oli vauvat</i>
30) <i>niin sitten ne otti sen poikasammakon ja lähti kotiin</i>	MAT <i>[ne]2 otti poikasammakon</i>
	MAT <i>Ø2 lähti kotiin</i>
31) <i>loppu</i>	-V

Narrations 29–30/36

C:

- 1) *that the boy (.) the do:g looked at the boy*
- 2) *an' then*

S: *hyvä (.) you're doing good*

C:

- 3) *looked at the frog*
- 4) *an' then (.) they:*
- 5) *they were sleeping*
- 6) *and the frog was gone*

S: *yeah*

- 7) *the boy put his (.) clothes on*
- 8) *and the do:g looked(.) in (.)th (.)the (.) glass*
- 9) *an' then the boy shouted (.) frog where are you (.) frog where are you*

- 10) *the dog was (.) in the (.) window*
- 11) *the dog (.) dropped (.) accidentally from the window*
- 12) *the boy looked down*
- 13) *the boy was really angry for the do:g*
- 14) *he shouted (.) fro:g (.) ou fro:g (.) where are you frog*

- 15) *(---)*
- 16) *the dog (.) wuffed (.) for+deh (.) bees*

S: *mm hmm*

C:

- 17) *and he (.) and the boy said that is smelly (.) dog (.) don't do that dog*

BEH *[the dog]1 looked at the boy*
-V

BEH *Ø1 looked at the frog*
-
BEH *they were sleeping*
REL *the frog was gone*

MAT *the boy put his clothes on*
BEH *the dog looked in the glass*

VERB *the boy shouted*
REL *frog where are you*
REL *the dog was in the window*
MAT *the dog dropped from the window*
BEH *the boy looked down*
REL *the boy was really angry*
VERB *he shouted*
REL *where are you frog*
-
VERB *the dog wuffed for+deh bees*

VERB *the boy said*

	REL that is smelly
	MAT don't do that
S: <i>hmm hmmm</i>	
C:	
18) <i>he accidentally dropped this ph(.) from the treetops</i>	MAT he dropped this from the treetops
19) <i>an' then (.) the boy looked into this (.) this (.) hole (.) in the ground</i>	BEH the boy looked into this hole
20) <i>an' (.) there were the owl and the bees (.) an' that the bees were attacking the do:g</i>	REL there were the owl and the bees
	MAT the bees were attacking the do:g
21) <i>so the owl (.) waked up and the boy fell down from the tree</i>	BEH the owl waked up
	MAT the boy fell down from the tree
22) <i>and the dog was running (.) 'way from those bees</i>	MAT the dog was running 'way
S: <i>ahaa</i>	
C:	
23) <i>the owl flew into his home (.) into the tree</i>	MAT the owl flew into his home
24) <i>the boy was (.) really (.) like ee distracting his+self</i>	-
S: <i>the boy was (.) pardon what</i>	
C:	
25) <i>the boy was (.) like (.) helping his+self</i>	BEH the boy was helping his+self
S: <i>oh yea</i>	
C:	
26) <i>so I think</i>	-
27) <i>so the boy climbed the rock</i>	MAT the boy climbed the rock
28) <i>an' the dog was (.) not alright</i>	REL the dog was not alright
29) <i>so that the boy climbed (.) the biggest rock</i>	MAT so that the boy climbed the biggest rock
30) <i>an' he touched (--) the horn (.) (--) (.) sticks</i>	-
31) <i>they weren't sticks (.) they were</i>	REL they weren't sticks
32) <i>the dog was behind the big rock</i>	REL the dog was behind the big rock
33) <i>and that the (---) that bad dog</i>	-
34) <i>the owl was sleeping</i>	BEH the owl was sleeping
S: <i>mm hmm</i>	
C:	
35) <i>then the boy got into something (.) was moving in his (.) on hi[-]</i>	REL the boy got into something
36) <i>the stick wasn't a stick it was something else (---)</i>	REL the stick wasn't a stick
	REL it was something else
37) <i>and the dog wuffed (.) for+dat</i>	VERB the dog wuffed for that
38) <i>an' the boy was (--)</i>	-
39) <i>mmm mm</i>	-
40) <i>boy and do:g fell down (.) in with a big splash</i>	MAT boy and dog fell down
41) <i>the boy and the (.) they splashed into the water</i>	MAT they splashed into the water
42) <i>and (.) the boy said I can hear something</i>	VERB the boy said
	MENT I can hear something
43) <i>the dog heard something as well</i>	MENT the dog heard something as well

S: mmhmm

C:

44) *so be quiet dog says the boy*

REL be quiet

45) *the dog was silent*

VERB says the boy

46) *now (.) the: (.) the boy (.) was looking (.) o (.) on the oder+side (.) and the dog as well*

REL the dog was silent

BEH the boy was looking on the oder+side

47) *and in de+oder side (.) there were two frogs*

REL there were two frogs

48) *an' (.) then (.) hmm (.) they were (.) happy*

REL they were happy

49) *and (.) they got baby frogs*

REL they got baby frogs

50) *and then (.)c can you see those dog those are babyfrogs*

MENT can you see those

REL those are babyfrogs

51) *I think so that frog was there*

MENT I think so

52) *(ohou) I found you frog*

REL frog was there

53) *then I bring it back*

REL I found you

MAT I bring it back

C:

1) *missä sä oot (.) sammakko*

REL missä sä oot sammakko

S: mmm

C:

2) *missä sä oot sammakko*

-

3) *minä ja (.) koirani katottiin (.) mmm (.) ööö sammakkoa*

BEH mina ja koirani katottiin sammakkoa

4) *se (.) hymyili*

BEH se hymyili

5) *me mentiin nukkumaan ja (.) ja (.) ööh (.) kilpikonnan (.) tuli (.) ulos (.) sieltä (.) m:issä olikaan*

MAT [me]1 mentiin BEH Ø1 "nukuttiin"

MAT kilpikonnan tuli ulos sieltä

S: mmm

C:

6) *niin (.) m:e (.) sitten kun oli (.) öö*

-

7) *herätyskello soi (.) ja minä heräsin (.) ja siellä ei ollut sammakkoo*

MAT herätyskello soi

BEH minä heräsin

REL siellä ei ollut sammakkoo

8) *kukaan ei ollut siellä*

REL kukaan ei ollut siellä

9) *niin (.) minä eh ja ja koirani oltiin ihmettelemäs*

BEH minä ja koirani oltiin ihmettelemäs

10) *vaihdoon vaatteeni (.) ja (.) minä vaihdoin vaatteeni*

MAT vaihdoin vaatteeni

11) *koira vaan (.) oli iloinen tossa kupissa*

REL koira oli iloinen

12) *ja minä nousin ja otin (.) vaatteet päälle*

MAT [minä]2 nousin

MAT Ø2 otin vaatteet päälle

13) *koira oli ikkunalaudalla ja minä huutelin*

REL koira oli ikkunalaudalla

VERB minä huutelin

14) *koira putosi ja minä katoisin alas*

MAT koira putosi

BEH minä katoisin alas

- | | |
|---|--|
| 15) <i>hän rikkoih (.) kupin</i> | MAT hän rikkoih kupin |
| 16) <i>ja se oli (.) tuhannena säpäleinä</i> | REL se oli tuhannena säpäleinä |
| 17) <i>ja sitten (.) minä nyrpistin (.) mm (.) öö koiralleni</i> | BEH minä nyrpistin koiralleni |
| 18) <i>minä huusin (.) ja öö (.) ja koira oli ihmettynyt että (.) ampiaiset oli lähellä koira</i> | VERB minä huusin |
| | REL koira oli ihmettynyt |
| | REL ampiaiset oli lähellä koira |
| 19) <i>minä katoen kolosta (.) jah koira yritti ottaa ampiaisia kiinni</i> | BEH minä katoen kolosta |
| | MAT koira yritti ottaa ampiaisia kiinni |
| 20) <i>kolossa oli sellainen pikku (.) m:yyrä ja sitten</i> | REL kolossa oli m:yyrä |
| 21) <i>sitte siellä (.) sitten koira haisi niin pahalle että (.) minä sanoin (.) haise (.) hyi sää haiset</i> | REL koira haisi pahalle |
| | VERB minä sanoin |
| | REL sää haiset |
| 22) <i>ja: ampiaiset (.) minä (.) minun koirani putosi (.) pudotti (.) ampiaisten pesän ja</i> | MAT koirani tiputti ampiaisen pesän |
| 23) <i>ja sitten kaikki ampiaiset hyökkäsivät (.) koiraan</i> | MAT kaikki ampiaiset hyökkäsivät koiraan |
| 24) <i>minä katsoin kolosta</i> | BEH minä katsoin kolosta |
| 25) <i>silloin kun ampiaiset meni (.) suoraan (.) koiraan</i> | MAT ampiaiset meni koiraan |
| 26) <i>sitten (.) sittenh (.) pöllö tuli ulos kolosta (.) ja minä putosin MAT pöllö tuli ulos kolosta</i> | MAT minä putosin |
| | MAT pöllö meni takasin puuhun |
| 27) <i>pöllö meni takasin puuhun</i> | MAT minäh kiipesin |
| 28) <i>ja (.) ja minäh (.) kiipesin (.) öö (.) isoimman kiven</i> | MAT minä koskin noihin |
| 29) <i>minä koskin noihin ja pöllö oli ihmettynyt</i> | REL pöllö oli ihmettynyt |
| | REL koira ei ollut okei |
| 30) <i>koira ei ollut okei</i> | MAT jotain liikkui |
| 31) <i>sitten jotain liikkui (.) ja (.) jotain</i> | BEH pöllö alkoi nukahtamaan |
| 32) <i>sitten pöllö alkoi nukahtamaan</i> | REL koira jäi kiinni |
| 33) <i>ja koira jäi kiinne kiinni</i> | MAT jotain pitkää liikkui |
| 34) <i>jotain (.) jotain (.) jotain pitkää (.) liikkui sitten minäh</i> | MAT minut vietiin lammikolle |
| 35) <i>sitten (.) öö (.) että (.) ettäh (.) m:inut vietiin lammikolle</i> | VERB [koirakin]3 myrähteli |
| 36) <i>koirakin (.) myrähteli ja puhu (.) öö (.) haukku</i> | VERB Ø3 haukku |
| | MAT juttu pudotti meidät |
| 37) <i>(ju:ttu) putosi (.) put (.) pudotti meidät ja (.) sielä oli iso splash</i> | REL siellä oli iso splash |
| | MAT minä putosin |
| 38) <i>minä putosin ja koira putosi minun päälleni</i> | MAT koira putosi päälleni |
| | MENT kuuletko tota koira |
| 39) <i>nooh (.) kuuletko tota kuoro (.) öö (.) koira</i> | BEH minä katoen toiselle puolelle |
| 40) <i>niin minä katoen toiselle puolelle</i> | VERB sanoin koiralle |
| 41) <i>ja shhh (.) ja sanoin koiralle</i> | REL siellä oli kaksi *1 |
| 42) <i>siellä oli kaksi (.) öö (.) niinku (.) kilpikonaa:</i> | - |
| 43) <i>eiku en m'nä muista</i> | |
| 44) <i>mikä se oli</i> | |

S: sam:

C:

45) *sammakkoa*

S: *nii+just*

C:

46) *niin (.) nyt niillä oli (.) vauvasammakkoja*

47) *ja sitten näätkö tuota*

48) *ne on hieno*

49) *ja niin ne on niistä puuttuu vielä yksi sammakko*

50) *se: sammakko löytyi*

51) *loppu*

*1 sammakkoa

REL niillä oli vauvasammakkoja

MENT näätkö tuota

REL ne on hieno

REL niistä puuttuu yksi

REL se: sammakko löytyi

-V

Narrations 31-32/36

C:

1) *once upon a time there was (.) a little boy*

2) *but I don't know his name*

3) *andh (.) he lived with a (.) do:g an' a fro:g*

S: *mmm*

C:

4) *an when the boy was sleeping and the do:g (.) the frog jumped out of the*

REL once upon a time there was a little boy

-

BEH he lived with a do:g an' a fro:g

5) *what was it (.) ee(.) I don't even know*

-

S: *are thinking about what that is*

C:

6) *yeah*

S: *yeah I think it's a jar*

C:

7) *yeah a jar*

8) *when the boy and the dog woke up (.) they didn't see the frog anywhere*

*1 jar

BEH the boy and the dog woke up

MENT they didn't see the frog anywhere

MAT [they]1 went BEH Ø 1 "searched" for it

-

-

-

BEH the boy searched for him under a boot

BEH the dog searched for him

9) *eh (.) they went searching for it (.) under the boot*

10) *and the do:g wats (.) what the*

11) *was there other pages*

12) *nope*

13) *the boy searched for him (.) under a boot*

14) *and (.) the do:g searched for him (.) ooh*

S: *you're doing good*

C:

15) *eh (.) em (.) what was this (.) jar*

S: *yes*

C:

16) *an' den they searched for it (.) outside*

17) *and then (.) the dog falled down out of (.) the window*

BEH they searched for it outside

MAT the dog falled down

18) andh (.) then (.) eh (.) the boy went out of the window	MAT the boy went out of the window
19) this falled (.) and this went	-
S: hmm	
C:	
20) and+den the do:g has (.) what was it(.)	-
21) lit (.) him (.) on a cheek	MAT lit [[licked]] him on a cheek
S: mm hmm	
C:	
22) and they searched him for (.) in a tree	BEH they searched him in a tree
S: mm hmm	
C:	
23) an deh (.) dog barked (.) the bees out of the (.) hi:ve	VERB the dog barked the bees out of the hi:ve
24) and the bees were angry of course (.) they (.) are (.) always (.) angry	REL the bees were angry
	BEH the boy looks him under ground
25) and deh boy (.) looks him under ground (.) but there was	REL there was *2
26) what was the: name	-
27) I think	-
S: what does it look like	
C:	
28) it looks like a haisunäätä 'skunk'	*2 a haisunäätä 'skunk'
S: might be	
C:	
29) yeah (.) because I see this holding hands on here	-
S: hmm	
30) and the beehive falled (.) and the bees were really angry at the dog	MAT the beehive falled
	REL the bees were really angry at the dog
31) and the boy searched him (.) well actually the dog searches him (.) in here	BEH the dog searches him in here
32) but the boy searches him (.) in deh (.) in deh (.) trees	BEH the boy searches him in deh trees
33) the do:g (.) ran away from deh bees	MAT the dog run away from the bees
34) and den (.) de boy falled down (.) under owel	MAT the boy falled down
S: mm hmm	
C:	
35) and (.)de boy (.) climbed up (.) here	MAT the [boy]2 climbed up
36) and then tryeded to search for him (.) or save from him	BEH Ø2 tryeded to search for him or BEH save from him
37) when he goes on top (.) deh bushes	MAT when he goes on top deh bushes
38) de deer (.) comes up and (.) jus' carries him an'	MAT the [deer]3 comes up
	MAT Ø3 carries him JÄIN TÄHÄ
39) jus' like (.) throws him (.) dere	MAT Ø3 throws him dere
40) an' denh (.) he throws (.) a deer throws dem in deh wa (.) on deh water	MAT a deer throws dem in deh water
41) he splashed the dog (.) and (.)deh (.) dog and then:	MAT he splashed the dog
42) I dunno what happened dere	-

43) <i>an' denh(.) the boy listens to him</i>	BEH the boy listens to him
S: <i>mmm</i>	
C:	
44) <i>if he says anything</i>	VERB if he says anything
S: <i>yeah that's good</i>	
C:	
45) <i>an' denh (.) when they look behind (.) de lo:g</i>	BEH they look behind de lo:g
46) <i>dey see deh fro:g</i>	MENT dey see deh fro:g
S: <i>hmm</i>	
C:	
47) <i>(---)</i>	-
48) <i>and they waved good bye for the fro:g (.) family</i>	BEH they waved good bye for the fro:g family
49) <i>de end</i>	-V

C:	
1) <i>ööö (.) I dunno what that's in finnish that once upon a time</i>	-
2) <i>I'm not very good at finnish</i>	-
S: <i>ei se haittaa (.) sä voit alottaa ihan miten sä haluut</i>	
C:	
3) <i>ääh (.) mhhm (.) I can't forgot (.) can't spell it in finnish</i>	-
S: <i>voi alottaa vaikka (.) olipa kerran</i>	
C:	
4) <i>olipa kerran (.) poika (.) kukah (.) kuka asu koiran (.) ja sammakon kaan (.) sen talos</i>	REL olipa kerran poika BEH kuka asu koiran ja sammakon kaan sen talos
S: <i>mmm</i>	
C:	
5) <i>mut kun ne(.) oli nukkumassaan (.) se sammakko hyppäs pois (.) pullostah</i>	BEH ne oli nukkumassaan MAT sammakko hyppäsi pois
6) <i>ja sit kun+ne heräs</i>	BEH ne heräs
7) <i>niin sitten ne ei nähny enää sammakkoa</i>	MENT ne ei nähny sammakkoa
8) <i>poika etsi sitä:h (.) saappaan alta (.) ja sitten koira etsi sitä pullostah</i>	BEH poika etsi sitä saappaan alta BEH koira etsi sitä pullostah
9) <i>mutta (.) sit niit (.) sit ne:h (.) etsi sitä (.) ulkoo</i>	BEH ne etsi sitä ulkoo
10) <i>ja sitten poika huuti (.) tule tänne</i>	VERB poika huuti tule tänne
11) <i>jah (.) sitten toi:ih (.) toi koira putos</i>	MAT toi koira putos
12) <i>ja sitten tota:h (.) koir koira nielas sitä pokseen poskeen</i>	MAT koira nielas [[nuolas]] sitä poskeen
S: <i>mm hmm</i>	
C:	
13) <i>ja sit ne katto sitä: (.) tuota (.) puusta</i>	BEH sit ne katto sitä: puusta
14) <i>ja sitte poika katto siltä: (.) maan sisältä</i>	BEH poika katto maan sisältä
15) <i>ja sitten koira etti sitä:h (.) mehiläisien pesästä</i>	BEH koira etti sitä:h

16) *ja sittenh (.) mehiläiset oli vähän (.) vähäh (.) ilkeitä ja sitten ne tuli tosi ilkeeks (.) kunh*

REL mehiläiset oli vähän ilkeitä

REL ne tuli tosi ilkeeks

17) *ja sitten (.) poika haisti haisunäädän*

MENT poika haisti haisunäädän

18) *ja se laitti kädet (.) sen+nenää*

MAT se laitti kädet sen+nenää

19) *mun+ol (.)mun on huo (.) I'm no (.) little good at finnish -*

S: *hyvin menee*

C:

20) *ja sitten (.) ehh (.) mehiläisien (.) mehiläisien: (.) pesä tippu ja ne oli ilk (.) tosi tosi tosi ilkeitä koiralle*

MAT mehiläisien pesä tippu

REL ne oli tosi ilkeitä koiralle

21) *niin sitten (.) poika katto (.) öö puun sisältä*

BEH poika katto puun sisältä

22) *mut siellä oli pöllö*

REL siellä oli pöllö

23) *ja sitten (.) koira meni poi (.) juoksi pois mehiläisist*

MAT koira juoksi pois mehiläisistä

24) *sitten poika kiipes (.) tohon mäken (.) päälle*

MAT poika kiipes mäken päälle

25) *niin sitteh (.) sitten (.) tota:h (.) sit se (.) ku se oli siel (.) se meni puskaan*

REL se oli siel

MAT se meni puskaan

26) *hh ja sitten (.) kun se meni puskaan (.) siellä oli hirvi*

REL siellä oli hirvi

27) *ja se kantas sitä ja heitti sen veteen*

MAT [se]1 kantas sitä

MAT Ø1 heitti sen veteen

28) *ja sitteh ne tik (.) kun ne (.) pulas tonne: veteen niin (.) sit siit tuli iso: (.) iso: platsau:s (.) platsaus*

MAT ne pulas veteen

REL siit tuli iso platsaus

29) *sitte ku (.) toi poika (.) kuuli jotai (.) taa (.) takana (.)niin sitte koira ja se poika (.)katto sinne*

MENT poika kuuli jotai

BEH koira ja se poika katto sinne

30) *ja sit ne (.) näki tota: (.) noi sammakon äiti ja (.) iso (.) iso: (.) iso+poika*

MENT ne näki noi sammakon äiti

31) *ni sitten ken se anto kaikki (.) sammakot leikkiin (.) niin sitte poika ja koira näki mo (.) yhdet sen oman sammakon*

MAT se anto kaikki sammakot leikkiin

MENT poika ja koira näki sen oman sammakon

32) *niin sitten (.) ne sano hei hei (.) tolle: (.) äitisammakolle ja iskäsammakolle*

VERB se sano hei hei

33) *noih*

-V

Narrations 33-34/36

C:

1) *once upon a time there was a boy who had a dog*

REL there was a boy

REL who had a dog

2) *an' they have a frog*

REL they have a frog

3) *and they take care of the their frog very much then*

BEH they take care of their frog

4) *he waited when his mamma took the frog out of there*

BEH he waited

5) <i>when he was sleeping (.) his the frog jumped out of the (.) jar</i>	MAT his mamma took the frog out of there BEH he was sleeping MAT the dog jumped out of the jar
6) <i>and then when he wake up (.) he was very scared that where was (.) the frog</i>	BEH when he wake up REL he was scared REL where was the frog BEH he look under his boot MAT the dog fell out MAT he braked the jar -
7) <i>he look under his boot and (.) outside of the window</i>	
8) <i>then the dog fell out with the jar</i>	
9) <i>an' he braked the jar</i>	
10) <i>dei+didnd aaahh</i>	
S: <i>you're doing good you're doing good</i>	
C:	
11) <i>they shouted (.) where was the frog</i>	VERB they shouted REL where was the frog BEH they looked everywhere MAT they digged holes REL they didn't find him MAT the dog braked the beehive REL the bee were very angry BEH the boy looked to tree REL there was an owl MAT the owl flew away MAT the boy climbed to a rock MAT he picked some sticks REL they weren't sticks REL it was a moose MAT [the moose]1 take the boy MAT Ø1 push dem to the water REL it was not deep water REL there was a lo:g MAT he creep out of the lake REL there was the two fro:gs VERB dey 'aid [said] good bye to the fro:gs
12) <i>they looked everywhere</i>	
13) <i>they digged holes (.) but they didn't find him</i>	
14) <i>the dog braked the beehive and then bee were very angry</i>	
15) <i>an' then (.) the boy looked to tree</i>	
16) <i>an' there was owl</i>	
17) <i>the owl (.)went to (.) fla flew away</i>	
18) <i>and the boy (.) climbed to a rock an' then he picked some sticks</i>	
19) <i>and then de (.) they wasn't (.) they weren't sticks</i>	
20) <i>it was a moose</i>	
21) <i>the moose (.) take take the boy (.) and push dem to the water</i>	
22) <i>bu' i i' was just not deep water (.) i' was just</i>	
23) <i>an' there was a lo:g next to him</i>	
24) <i>an' then he dig d dig creep (.) out of (.) the lake</i>	
25) <i>an' there was the two fro:gs</i>	
26) <i>and den de (.) dey 'aid good bye to the fro:gs</i>	

C:	
1) <i>Olipa kerran poika kellä oli koira ja sammakko (.) jolla oli purkissa sammakko</i>	REL olipa kerran poika REL kellä oli koira ja sammakko REL jolla oli purkissa sammakko BEH ne hoiti sitä MAT [he]1 meni BEH Ø1 " <u>nukku</u> " MAT sammakko hyppäsi ulos purkista BEH hän heräsi REL hän oli kadonnut
2) <i>ja sitten (.) ne hoiti sitä hyvin</i>	
3) <i>kun(.) kun he meni nukkumaan (.) sammakko (.) hyppäsi ulos mm purkista</i>	
4) <i>sitten hän (.) kun hän heräsi (.) niin (.) hän oli kadonnut</i>	

- 5) *hän katsoi (.) kengistään ja (.) ulos ikkunasta*
- 6) *sitten koira putosi ikkunasta ja (.) rikkoi purkin*
- 7) *hän meni m metsään ja (.) m huuti siellä (.) missä sinä o:le:t*
- 8) *he he (.) he kaivoivat koloja ja sit siellä oli (.) eläimiä ja sit mä hh*
- 9) *ja koira katsoi (.) öm yhh*
- 10) *ja sitten hän rikkoi (.) öm ampiaisenpesä'*
- 11) *poika kattoi puuv+välistä*
- 12) *siellä oli (.) pöllö kuka no (.) kuka työnsi sen alas*
- 13) *sitte poika (.) juoksi pois*
- 14) *hän piti (.) kepeistä: (.) ettei hän tippunut*
- 15) *ja huusi sammakko missä sinä olet*
- 16) *se ei ollukkaa keppejä*
- 17) *siinä oli poro*
- 18) *ja poro vei hänet nn suolle*
- 19) *ja tiputti hänet (.) ja koiran*
- 20) *onneksi ei ollu (.) syvää vettä (.)oli vaa matalaa*
- 21) *siellä olih (.) puu (.) kaatunu+puu (.) juuri hänen vieressään*
- 22) *he röömivät hiljaa (.) sem+puun yli*
- 23) *ja löysivät sammakon*
- 24) *ja nyt+hem+meni kotii ja heippasivat sammakoita*

BEH hän katsoi kengistään
 MAT [koira]2 putosi ikkunasta
 MAT Ø2 rikkoi purkin
 MAT [hän]3 meni metsään
 VERB Ø3 huuti siellä
 REL missä sinä olet
 MAT he kaivoivat koloja
 REL siellä oli eläimiä
 -
 MAT hän rikkoi ampiaisenpesä'
 BEH poika kattoi puuv+välistä
 REL siellä oli pöllö
 MAT kuka työnsi sen alas
 MAT poika juoksi pois
 MAT [hän]4 piti kepeistä
 MAT ettei hän tippunut
 VERB Ø4 ja huusi sammakko
 REL missä sinä olet
 REL se ei ollukkaa keppejä
 REL siinä oli poro
 MAT[poro]5 vei hänet suolle
 MAT Ø5 tiputti hänet ja koiran
 REL ei ollu syvää [vettä]6
 REL oli vaa matalaa Ø6
 REL siellä olih kaatunu puu
 MAT [he]6 röömivät sem+puun yli
 REL Ø6 löysivät sammakon
 MAT [he]7+meni kotii
 BEH Ø7 heippasivat sammakoita

Narrations 35–36/36

C:

- 4) *mmm dat (.) one night de bro (.) the frog went away*
- 5) *and denh (.) de frog uh (.)like de (.) boy was (.) a looking at the jar*
- 6) *den he said oh no (.) d cos de frog was away*
- 7) *an' denh (.) eem (.) wait a minute whas what was on de second page*

S: you can look at the pages it's ok

C:

- 8) *it was like*
- 9) *den de boy c (.) ee put his shirt on*
- 10) *and (.) he an' de dog looked into de jar*
- 11) *an'+den de (.) de (.) boy opened a window*

MAT the frog went away
 BEH de boy was looking at the jar
 VERB he said oh no
 REL de frog was away
 -

-
 MAT de boy put his shirt on
 BEH he an' de dog looked into de jar
 MAT de boy opened a window

12) *an' den he shouted (.) where is his frog*

VERB he shouted

13) *an' den de dog fell an' broke de jar*

REL where is his frog

MAT [de dog]1 fell

MAT Ø1 broke de jar

14) *an' den deh (.) boy was angry*

REL deh boy was angry

15) *den (.) de dog saw some beez*

MENT de dog saw some beez

16) *and da (.) aah dah boy shouted for his frog*

VERB dah boy shouted for his frog

17) *an' den de dog tried to catch de beez*

MAT de dog tried to catch de beez

18) *and he looked into the hole*

BEH he looked into the whole

19) *and den de bo (.) dog did climbing to da tree and tried to catch de beez*

MAT de dog did climbing to da tree

20) *and den (.) de boy had a stinky*

REL de boy had a stinky

21) *what is it like the myyrä 'mole'*

-

S: mmm

C:

22) *an' thenh (.) de beez were following the de dog 'coz (.) dah he dropped the dah (.) where dey live (.) like*

MAT de beez were following the de dog

MAT he dropped the where BEH they live like

23) *an den (.) aa the boy climb+in de tree (.) to see if dere is the frog*

MAT[the boy]2 climb+in de tree MENT Ø2 "saw"

REL dere is the frog

24) *but there was an owel an den he dropt (.) from the tree*

REL there was an owel

MAT he dropt from the tree

25) *and de dog was running away from de beez*

MAT de dog was running away

S: mmm

C:

26) *and then de owel hitted+him on de head*

MAT de owel hitted+him on de head

27) *and den he climb on dah rock and shouted for his frog*

MAT [he]2 climb on dah rock

VERB Ø2 shouted for his frog

28) *den (.) de reindeer lifted him*

MAT de reindeer lifted him

29) *an' den dey walked (.) w somewhere*

MAT dey walked somewhere

30) *and de dog was dere*

REL de dog was dere

31) *and den (.) de' dropt into+dah water*

MAT de dropt into+dah water

32) *and de dog like just walked like with his head like dis (.) to dah water*

MAT de dog walked

33) *and he didn't see 'cos he fall*

MENT he didn't see

MAT 'cos he fall

34) *and den de boy falled (.) from the reindeer*

MAT de boy falled from the reindeer

35) *and den (.) de (.) de dog was on de (.) boy and de h de boy's head went to de water*

REL de dog was on de boy

MAT de boy's head went to de water

36) *and dey were sitting on de water*

MAT dey were sitting on de water

37) *and de dog was sitting on the boy's head*

MAT de dog was sitting

38) *den (.) he said shhh to de dog (.) dah boy*

VERB he said shhh

39) *and den dey climbed over (.) dah (.) da tree+trunk*

MAT dey climbed over dah tree+trunk

40) *and dey founded dah frog*

REL dey founded dah frog

41) *and den (.) dey went with his frog into hh his hh de boy's home*

MAT dey went into de boy's home

42) *and dat's de end*

REL dat's de end

43) *it's pretty funny 'coz here's the little frog*

-

C:

- | | |
|--|---------------------------------|
| 1) kerran oli poika (.) joka halus äh (.) löyt (.) se sam eikun | REL kerran oli poika |
| 2) kerran yällä (.) oo (.) se sammakko meni yällä (.) pois (.) kodiin (.) seh (.) sens kotiin | MAT se sammakko meni yällä pois |
| 3) ja sitten aamulla (.) se poika ka(.) kattoi sinne (.) tänne mä en tiedä sitä mut enklanniks ainakim+mä tiedän et'+se on jar | BEH se poika kattoi sinne |

S: joo se om+purkki

C:

- | | |
|---|-------------------------------|
| 4) ja sielä se ei ollu se (.) ääh (.) sammakko | REL sielä ei ollu se sammakko |
| 5) ja sitten se sanoi o (.) ei: (.)no mitä se oli (.) ou nou oli: | VERB se sanoi ei: |

S: voi ei

C:

- | | |
|---|---|
| 6) voi ei | - |
| 7) ja sitte se pisti sem+paidan päälle ja sitte se (.) avasi ilka ikkunan ja se huu | MAT se pisti sem+paidan päälle
MAT se avasi ikkunan |
| 8) eiku se kattoi sinne paidan sisään | BEH se kattoi sinne paidan sisään |
| 9) ja sitten se huusi (.) sille sammakolle | VERB se huusi sille sammakolle |
| 10) ja se: (.) sillä koiralla oli toi (.) joku purkki (.) sem päällä | REL koiralla oli purkki sem+päällä |
| 11) jaa sit se koira tipahti (.) ja rikkos tota (.) öö purkkii | MAT [se]1 koira tipahti
MAT Ø1 rikkos purkkii |
| 12) ja se poika oli suuttuneet | REL poika oli suuttuneet |
| 13) ja se koira nauras sitä poikaa | BEH se koira nauras sitä poikaa |
| 14) ja sitten toi koira näi hyttys (.) hyttysii | MENT toi koira näi [näki] hyttysii |
| 15) ja se halus mennä niille koska se oli suuttunet sille | MENT[se]2 halus MATØ 2 " <u>meni</u> " niille
REL se oli suuttunet sille |
| 16) ja sitten (.) toi poika huusi sen sammakolle | VERB toi poika huusi sen sammakolle |
| 17) ja sitten (.) toi koira yritti saada ne hyttys | REL toi koira yritti saada ne hyttys |
| 18) ja toi (.) p poi toi poika kattoi jos tuolla (.) kolossa oli (.) öö tota (.) sammakko mut siellä oli myyrä | BEH toi poika kattoi
REL tuolla kolossa oli sammakko
REL siellä oli myyrä |
| 19) ja (.) koira kattoi jos tuala oli se koira siellä ampaisem+pesässä mut sielä ei ollu se | BEH koira kattoi
REL tuala oli se koira
REL sielä ei ollu se |
| 20) vaan siellä vaan oli ampaisia | REL siellä vaan oli ampaisia |
| 21) ö se rikkos niiden koti | MAT se rikkos niiden koti |
| 22) ja sitten se meni juoksemaan pakoon | MAT se meni juoksemaan pakoon |
| 23) ja toi (.) öö (.) poika kiipes puuhun ja sitten oli toi (.) öö (.) mikä se oli (.) siellä oli toi owl 'pöllö' | MAT poika kiipes puuhun
REL siellä oli toi owl 'pöllö' |

S: joo pöllö

C:

- | | |
|---|-----------------------|
| 24) nii pöllö | - |
| 25) ja sitten se tipahti sieltä koska se luuli että siellä oli sammakoita | MAT se tipahti sieltä |

26) *ja sitten toi (.) öö (.) juoksi sitä (.) niistä ampioista pakoon se koira*
27) *ja sitten (.) se teki niin näin että se: (.) se: owl (.)se: se pöllö ei tule enää*

28) *ja sitten+se kiives tonne puuhun*
29) *ja sitten (.) tai siis kiveen*
30) *ja sitten tuli: tota: (.) mikä se oli (.) a reindeer 'peura'*

S: *mmm peura tai hirvi*

C:

31) *nii hirvi (.) ja sitten (.) se hirvi juoksitti sitä (.) mereen*
32) *ja site toi koira niin+ku vaan kattoi sitä poikaa (.) ja sitten se tipahti*

33) *ja sitten se koira tipahti samaan+aikaan kun toi poika*
34) *ja sitten se koira meni sem+pojan päälle*
35) *ja sitten (.) se kiives se koira sem+päähän*
36) *ja sitten (.) seh (.) se poika sano shhh koiralle*
37) *ja sitten ne kiives (.) öö ton puun päältä*
38) *ja sitten ne löysi täysin sammakoita*
39) *ja sitten ne: (.) otti: sen oman sammakon kotii*
40) *ja siitä (.) se (.) tarina loppuu*

MENT se luuli
REL siellä oli sammakoita
MAT toi juoksi niistä ampioista pakoon
MAT se teki näin
MAT se pöllö ei tule enää
MAT se kiives tonne kiveen
-
MAT sitte tuli a reindeer 'peura'

MAT se hirvi juoksitti sitä mereen
BEH toi koira kattoi sitä poikaa
MAT se tipahti
MAT se koira tipahti
MAT se koira meni sem+pojan päälle
MAT se kiives sem+päähän
VERB se poika sano shhh koiralle
MAT ne kiives
REL ne löysi täysin sammakoita
MAT ne otti: sen oman sammakon
REL siitä se tarina loppuu

APPENDIX 4: Permission form



English philology/Logopedics

PERMISSION TO RECORD AND USE VIDEO AND AUDIO MATERIAL

The name of the child participating in the study:

I give the permission for student/researcher _____(name)_____ to record and archive video and audio material. _____(signature)

The study concerns bilingual children's verb usage in a narrative task.

The data will be collected both in Finnish and in English.

The recorded data may be used for further scientific research, scientific publications and presentations e.g. theses, dissertations and articles.

Privacy protection: all the researchers using the data are and will be bound by professional secrecy (e.g. the name and identity number of the participant will be kept confidential).

I am aware that I am able to cancel this agreement on my request. The person in charge of the recordings and their archiving is Sonja Alantie tel. xxx xxx xxxx

This permission is valid until further notice.

Location and date Signature and name in capital letters

Contact information:

Name: _____

Address: _____

Tel.number: _____ E-mail: _____

APPENDIX 5: Questionnaire for parents

QUESTIONNAIRE OF A CHILD'S SPEECH AND LANGUAGE SKILLS

(Please fill in both the English and the Finnish part of this questionnaire)

PRELIMINARY INFORMATION

The form was filled in by: _____ date: _____

Name of the child: _____ date of birth: _____

She/he began to make sounds at the age of _____ and babble at the age of _____.

She/he said her/his first words at the age of _____ and sentences at the age of _____.

Is the child bi/multilingual? Yes ___ No ___

Parents' native languages: _____

Languages the child uses at home: _____

Does the child use other languages? Where? _____

In which order and at what age has the child started acquiring the languages (if not simultaneously)?

Is one of the child's languages stronger than the others? Which one?

In which countries has the child lived in and when?

Siblings' dates of birth: _____

Child's hobbies (How many times a week?): _____

Has there been anything special in your child's speech and language development? /Other considerations or observations?

INSTRUCTIONS (© Anne Suvanto) translation: Sonja Alantie

This questionnaire contains claims that depict a child's language skills and competence of verbal expression. The aim is to learn the parents' estimate on how their child communicates with speech in various everyday situations.

Answer the following questions by choosing the number that best corresponds to your opinion of the issue in question.

0 = not able to assess, 1 = never, 2 = seldom, 3 = often, 4 = usually always

The child

1. greets others (*hello, good morning, goodbye*, etc.). _____
2. asks and demands e.g. "I want ice cream!", "Give me juice.". _____
3. controls another person's (a child or an adult) actions or behaviour e.g. "Lets play that videogame", "Come to my place". _____
4. tells about her/his emotions e.g.
"I got angry when Andy didn't play with me", "I like bunnies". _____
5. is curious and asks about things she/he has seen and heard e.g.
"What's that sound?", "Where did Mom go?", "Why has a cat got a tail? _____
6. repeats jokes, stories or rhymes she/he has heard. _____
7. makes up jokes, stories or rhymes. _____
8. is able to tell about past events intelligibly
e.g. what she/he had done on summer vacation or at day care. _____
9. uses clear impressions when talking about future plans,
e.g. "tomorrow" or "when I grow up". _____
10. confuses the order of the events when telling a story or when describing a resent event. For example if the child describes a movie she/he may talk about its ending before its beginning.

11. often uses indirect ways of expressing thing, e.g. instead of saying *rhinoceros* she/he may say "the animal with a horn on its nose."

12. confuses words that are close to each other in meaning, e.g. may call a chair *table*.

13. makes grammatical errors e.g. says "Boy see girl" when she/he is supposed to say "A boy sees a girl".

14. talks like a younger child e.g. calls a rabbit "wabbit", a shoe "oo" or a ship "shlip".

15. is able to categorise things, e.g. talks about *fruit* meaning apples, bananas and oranges or *toys* meaning a teddy, a toy car and a ball.

16. is able to describe the purpose of use of an item, e.g. "You drink out of a cup."

17. is not able to express her/himself clearly, e.g. says "that there" instead of saying "a kettle".

18. produces long and complex sentences such as "When we went to the park I saw a big truck."

*

OHJEET (© Anne Suvanto)

Tämä kyselykaavake sisältää väitteitä, jotka kuvaavat lapsen puheilmaisun tasoa ja kielen käyttöä. Kyselyn tarkoituksena on saada vanhempien arvio siitä, miten heidän lapsensa kommunikoi puheensa avulla arkipäivän erilaisissa tilanteissa.

Voitte vastata seuraaviin väitteisiin alla olevan ohjeen mukaan. Merkitkää väitteen kohdalle se numero, joka mielestänne parhaiten vastaa arviotanne kyseisestä asiasta.

0 = en osaa arvioida, 1 = ei koskaan, 2 = harvoin, 3 = usein, 4 = yleensä aina

1. Lapsi tervehtii toisia (hei-hei, päivää, näkemiin jne.).

2. Lapsi pyytää ja vaatii, esim. "Haluan karkkia", "anna ruokaa".

3. Lapsi ohjaa toisen henkilön (aikuisen tai lapsen) käyttäytymistä, esim. "Pelataan sitä noppapeliä", "Tule meille kylään".

4. Lapsi kertoo tunteistaan, esim. "Minua suututtaa kun Ville ei tullut leikkimään", "Tykkään jäätelöstä".

5. Lapsi on utelias ja kyselee asioita näkemästään ja kuulemastaan, esim. ”Mikä tuo ääni on?”, ”Minne äiti meni?”, ”Miksi kissalla on häntä?” _____
6. Lapsi toistaa kuulemiaan vitsejä, satuja tai loruja. _____
7. Lapsi keksii itse vitsejä, tarinoita, satuja tai loruja. _____
8. Lapsi osaa kertoa menneistä tapahtumista ymmärrettävästi, esim. mitä teki päiväkodissa tai kesälomalla. _____
9. Lapsi kertoo selkeästi siitä, mitä aikoo tehdä tulevaisuudessa, esim. ”huomenna” tai ”isona”. _____
10. Lapsi sekoittaa tapahtumien järjestyksen tarinaa kertoessaan tai kuvaillessaan äsken tapahtunutta asiaa. Esimerkiksi jos kuvailee filmiä, saattaa puhua lopusta ennen alkua. _____
11. Lapsi käyttää usein kiertoilmauksia, esim. sarvikuonon sijaan saattaa sanoa: ”Se eläin, jolla on sarvi päässä”. _____
12. Lapsi sekoittaa merkitykseltään toisiaan lähellä olevia sanoja, esim. voi sanoa tuolia pöydäksi. _____
13. Lapsi tekee kielioppivirheitä, esim. sanoo: ”Poika näki tyttö”, vaikka pitäisi sanoa: ”Poika näki tytön”. _____
14. Lapsi puhuu ikäistään nuoremman tavoin, esim. käyttää kirjasta nimeä kiija”, kissasta ”kitta” ja pyörästä ”pöölä”. _____
15. Lapsi osaa luokitella asioita, esim. puhuu hedelmistä tarkoittaessaan omenia, banaaneja ja appelsiineja tai leluista tarkoittaessaan nallea, leikkiautoa ja palloa. _____
16. Lapsi osaa kuvata esineen ja sen käyttötarkoituksen, esim. ”Mukista juodaan”. _____
17. Lapsi ei pysty ilmaisemaan itseään tarkasti, esim. sanoo ”tuo tuossa” sen sijaan että sanoisi ”kattila”. _____
18. Lapsi tuottaa pitkiä ja monimutkaisia lauseita, kuten ”Kun me mentiin puistoon, niin mä keinuin”. _____

References/Lähteet: Bishop, D. (2003). The Children’s Communication Checklist, CCC-2, Halliday, M.(1975). Learning how to mean – explorations in the development of language, Leiwo, M.(1987). Lapsen kielen kehitys